

Cherry Creek Watering Booms and Systems



Single Rail Boom

Cherry Creek's Single Rail Boom is a cost-effective automatic system, designed with simplicity and efficiency in mind and ideally suited for smaller bays with simple watering requirements. Its rugged, compact housing is built to move up and down a greenhouse on one rail, its spray bar is turned on or off by a single solenoid, and the boom waters the full width of the bay.

Boom automation allows for controlled application rates of water and chemicals, which reduces overspray and results in long-term savings. Automatic irrigation will also significantly reduce labor costs. The boom leaves the factory fully assembled, so installation will be simple and fast.



Description	Price
Example: Single Rail Boom for 18' x 300' bay	Approximately \$4,000.00

Prices vary by structure. Please contact BFG's TSD team for a custom quote.

Double Rail Boom

Cherry Creek's Double Rail Boom offers the versatility of independent watering of the right, left, or both sides of the greenhouse, along with walk-through for walkways. With the stability of two running rails, boom sway is also eliminated. Combined with the advanced controller, the Double Rail Boom handles the most complicated application requirements, assuring precise rates of water and chemicals. Save significantly on both water and labor costs. Booms are nearly fully assembled and simple to install.



Extra Aisle Nozzle

Safety Bearing

Description	Price
Example: Double Rail Boom for 32' x 300' bay	Approximately \$6,000.00

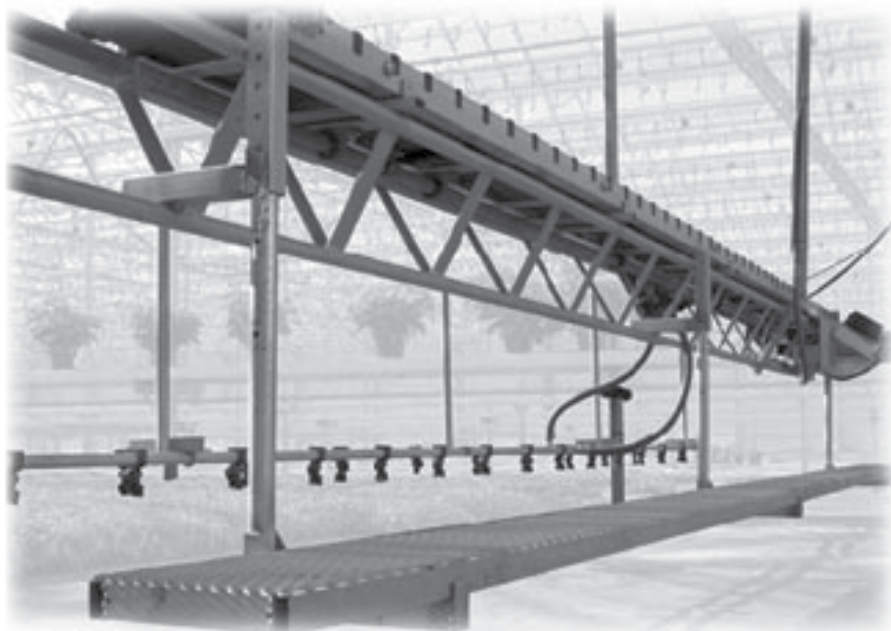
Prices vary by structure. Please contact BFG's TSD team for a custom quote.



Tower Boom

Cherry Creek's Tower Boom is designed to be a workhorse for all of your irrigation, maintenance and crop inspection needs. It is almost completely pre-assembled at the factory, and is supported by rails mounted off the gutter posts on both sides of the bay that span the width of the greenhouse.

- Rugged Construction
- Precise Application of Water and Chemicals
- Water Savings and Reduction in Labor
- Adaptable for conveyors and scaffold
- Pre-assembled for easy installation
- Transportation system



Scaffolding



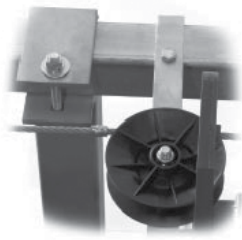
Height Adjustment for Scaffold

EQUIPMENT

ECHO® System

For more than 20 years, the ECHO® automated basket irrigation system has increased watering efficiency and plant production in all types and sizes of greenhouses, while significantly lowering labor costs. The ECHO® System allows for accurate measurement of water to each basket. Additionally, fertilizer application can be consistently controlled, resulting in faster production times, higher yields, and more crop turns per season.

The gentle movement of the plants as they go through the watering mode allows them to experience various lighting exposures and air movement over the surface, which promotes healthier growth. In addition, the plants are watered at a position that does not interfere with the crops below. ECHO® leaves the factory fully assembled, making installation fast and simple.



Curtain-Friendly Clearance

Please call for custom pricing.



AQUAMAT®

AM: THE PROFITABLE WAY TO IRRIGATE



EQUIPMENT

SUBIRRIGATION MAT SYSTEM

- Grows uniform top quality crops
- Saves time and labor
- Cuts waste: No evaporation
No runoff

Capillary rise on a 3% slope	39 inches	
Transmissivity	4.14 in/min	
Water holding capacity	2.1 gal.us/sqyd	
Drip tape flow rate	1.35 gpm/100 feet	
Mat flow rate	0.007 gpm/ft ²	
Irrigation time	5-15 minutes/cycle	
Mat weight	0.15 lbs/ft ²	
Mat widths	Roll lengths	# of drip tapes
3' & 4'	5'-400'	2
5' & 6'	5'-400'	3
7' & 8'	5'-300'	4
11'	5'-300'	6

Item #	Description	Price per Linear Foot
D86063	Aquamat 3' wide with 2 drip tapes and connectors	\$4.57
D86065	Aquamat 4' wide with 2 drip tapes and connectors	\$6.09
D86070	Aquamat 5' wide with 3 drip tapes and connectors	\$8.90
D86075	Aquamat 6' wide with 3 drip tapes and connectors	\$9.14
D86080	Aquamat 7' wide with 4 driptapes and connectors	\$10.66
D86083	Aquamat 8' wide with 4 driptapes and connectors	\$12.17
D86085	Aquamat 11' wide with 6 drip tapes and connectors	\$16.74
37-2108	Seninger Pressure Regulator 10 psi	\$9.93
81-0347	Netafim 120 mesh disk filter	\$21.67
31-0430	Nelson 5200 Raindate Mechanical Water Timer	\$15.10

Super-Drip™ Hanging Basket Assemblies

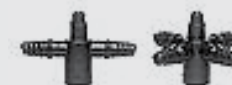
Features:

- Assure uniform, high-quality growth
- Feeder tubing assures water delivered straight to growing media with little or no runoff
- Hard-to-water hanging baskets get all the irrigation and/or nutrients they need
- Baskets are easier to hang or take down

Item #	Part #	Description	Nominal Flow Rate	Outlet Port Color	Price
32-4302	3243-0002	.5 GPH Super-Drip N.D. Emitter	0.5 GPH	Brown	\$0.60
32-4304	3243-0004	1 GPH Super-Drip N.D. Emitter	1 GPH	Black	\$0.60
32-4308	3243-0008	2 GPH Super-Drip N.D. Emitter	2 GPH	Green	\$0.60
32-4312	3243-0012	3 GPH Super-Drip N.D. Emitter	3 GPH	Red	\$0.60

The Heart of the System:

Super-Drip™ N.D. No-Drain, Pressure Compensating Drip Emitters



Optional 2- and 4-outlet adaptors fit over outlet port.

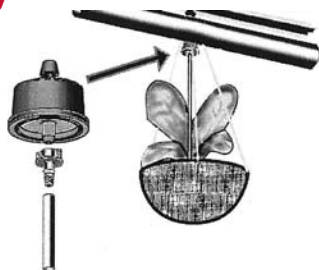
- Built-in no-drain diaphragm eliminates water draining from emitters when water is shut off.
 - Sealing pressure: 2.9 PSI Opening pressure: 5.8 PSI
 - Pressure compensating for constant flow rates over long lateral lines or varying terrain.
 - Working pressure range: 7–50 PSI.
- Self-activated flushing mechanism.
- Special raised outlet insures no run-off along lateral.
 - Outlet color coded by flow rate; brown body identifies no-drain model.
 - Outlet fits 0.187" O.D. x 0.125" I.D. spreader tubing; also fits optional 2- or 4-outlet adaptors.
- Easy field installation with 2mm punch tool.
- Made from durable, UV-resistant plastics.
- Resistant to chemicals and fertilizers commonly used in agriculture.

EQUIPMENT

Stiff Tube Assembly

Features:

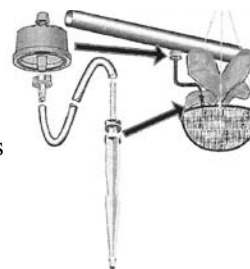
- Stiff polyethylene feeder tube goes through foliage to deliver water straight to basket growing media
- Easy, one-step process to hang or take down basket



Flexible Tube Assembly

Features:

- Flexible vinyl feeder tube
- Feeder tube attaches securely to Polytif peg
- Peg controls emitter flow, assures water delivered precisely to basket
- Peg can be reversed to plug feeder tube for shutoff as needed



Item #	Description	Price
32-6050S	12" .5 GPH Super-Drip N.D. Stiffy	\$0.64
32-6051S	18" .5 GPH Super-Drip N.D. Stiffy	\$0.98
32-6052S	24" .5 GPH Super-Drip N.D. Stiffy	\$0.70
32-6053S	36" .5 GPH Super-Drip N.D. Stiffy	\$0.76

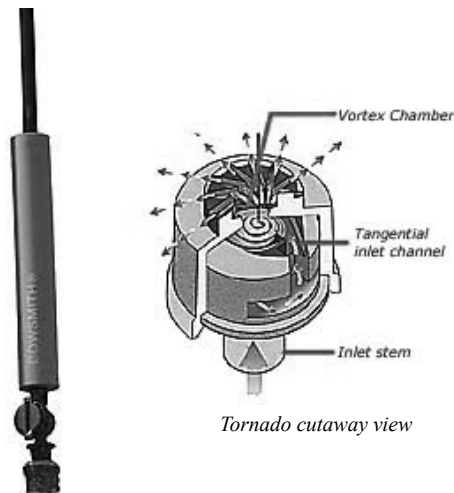
Item #	Description	Price
32-6051	18" .5 GPH Super-Drip N.D. Hanging Basket Assembly	\$0.77
32-6052	24" .5 GPH Super-Drip N.D. Hanging Basket Assembly	\$0.95
32-6053	36" .5 GPH Super-Drip N.D. Hanging Basket Assembly	\$1.07
32-6054	48" .5 GPH Super-Drip N.D. Hanging Basket Assembly	\$1.15

BOWSMITH

Tornado Mister Non-Clogging, Medium Range Mist Sprayer

Features:

- Vortex mechanism to prevent clogging.
- No bridge to prevent run-off, and insure uninterrupted 360 mist.
- Compatible with Plastro anti-leak valve.
- Detachable bayonet nozzles are color-coded by flow rate.
- Two connection types available:
 - Press-fit stem.
 - 10-32 threaded stem



Tornado cutaway view



Item #	Nozzle (in.)	Flow Rate at 45 PSI (GPH)	Wetting Diameter (ft.)	Drop Size (μm)	Price
32-1034	Black (0.043)	5.8	7.5	165	\$0.75
32-1033	Blue (0.051)	6.6	6.9	130	\$0.75
32-1032	Green (0.067)	10.0	6.2	145	\$0.75
32-1031	Red (0.079)	11.9	5.5	135	\$0.42

Tornado Mini Sprinklers

Features:

- Provides uniform, high-quality plant growth
- Rotating spinner sprays fine droplets, delivers uniform water coverage
- Anti-leak valve prevents overwatering and drip leakage at system shutdown

The Heart of the System — Plastro Tornado Mini Sprinkler:

- Vortex mechanism with large water passages to prevent clogging
- Five nozzle sizes available, color-coded by flow rate
- Manufactured from durable plastics for long life

Item #	Nozzle	Flow Rate at 35 PSI	Wetting Diameter (ft.)	Price
32-1003	Bowsmith Plastro Mini Sprinkler Blue	12.7	8	\$0.58
32-1002	Bowsmith Plastro Mini Sprinkler Green	22.2	10	\$1.04
32-1001	Bowsmith Plastro Mini Sprinkler Red	29.6	12	\$0.58
32-1000	Bowsmith Plastro Mini Sprinkler White	33.6	15	\$1.05

* Nozzle 6 feet above bench.

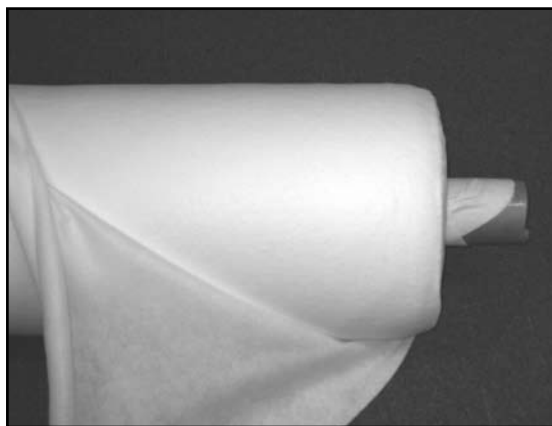
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Capillary Matting

Capillary matting works best on a level bench with some mat hanging over the side to help drain off extra water. Your BFG representative can help you determine the best way to apply water to the matting.

Item #	Description	Price
32-0001	Buffalo Felt Kap Mat 3' x 150' 4.5 oz.	\$129.31
32-0001A	Buffalo Felt Kap Mat 3' x 150' 9 oz.	\$276.25
32-0002	Buffalo Felt Kap Mat 4' x 150' 4.5 oz.	\$184.17
32-0002A	Buffalo Felt Kap Mat 4' x 150' 9 oz.	\$368.34
32-0000	Buffalo Felt Kap Mat 6' x 150' 4.5 oz.	\$276.25
32-0000A	Buffalo Felt Kap Mat 6' x 150' 9 oz.	\$552.51



Irrigation Check-Up

Here's a quick rundown of simple ways to check the accuracy of your irrigation system. Contact BFG's Technical Services Division for further assistance and answers to any irrigation questions.

✓Check uniformity of irrigation water delivery. On a frequent basis — such as weekly — observe sprinkler rotation speeds, water angles, or water drop sizes or measure water discharge pressure from sprinklers. This will determine if the irrigation system is working properly. Recording the time to fill the same sized bottle at different locations within an irrigated zone is a convenient way to check microirrigation system uniformity.

✓Check the amount of water applied. Cups or rain gauges can be placed in the greenhouse or nursery to record the amount of water applied. Jugs or bottles that receive water from microirrigation emitters are an effective means of monitoring microirrigated volumes.

✓Consider the plant's water requirement. Plants

should be grouped according to their irrigation requirements.

✓Consider effective water delivery. Plants grown in spaced (not pot-to-pot) 7-gallon containers or larger containers should be irrigated with microirrigation. This is necessary because under common production situations with overhead irrigation, only about 20% of the applied water enters spaced 7-gallon containers.

✓Consider container temperatures. Spaced black containers can have the potential to evaporate about twice as much water as pot-to-pot containers. Therefore, plants of the same size in spaced containers will need more water than those in jammed containers.

✓Look at container designs. Squat containers hold more water than taller conventional containers of the same volume, so squat containers may require a longer duration between irrigations. Other container designs may function similarly.

Source: Tom Yeager, greenbeam.com Cyberconference "Fertilizer and irrigation tips for container growing."

Dramm Drip Assembly: Dribble Tubes & Weights



The Dramm Tube has been a favorite for many years because of its shape and ease of use. Dramm has retained the best of the Dribble Tube weight while adding features to work more easily with the Dramm Low Flow System. The Dramm Low Flow weights (LF-W) are made from the same zinc aluminum

alloy as the Dribble Tube weights (DT-W), but unlike the DT-Ws, the LF-Ws have a barb fitting for easy assembly.

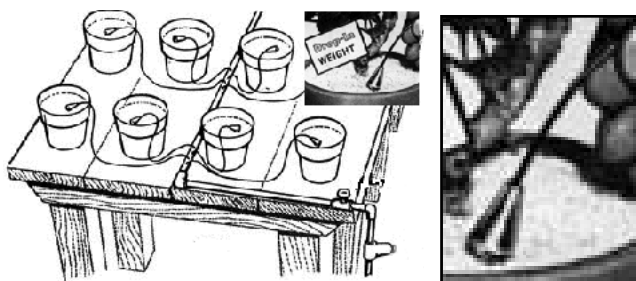
The Dramm LF-W weights are very compact and have a slim design that allows for easy harvesting. Additionally, instead of clamping to the outside of the leader tube, the water passes through the LF-W weights and out two side exit ports. This prevents the tube from plugging up with the media in the pot and provides for more even watering.

Item #	Description	Price
D20005	Dramm 18" Pressure Compensating Dribble Tube PCAS2L-18	\$0.72
32-0323	Dramm 24" Pressure Compensating Dribble Tube PCAS2L-24	\$0.76
32-0324	Dramm 36" Pressure Compensating Dribble Tube PCAS2L-36	\$0.82
D20155	Dramm 48" Pressure Compensating Dribble Tube PCAS2L-48	\$0.86
32-0452	Dramm PCASW 11 Gram Weight	\$0.31



11 gram weight -- zinc aluminum alloy

DRAMM



Chapin Watermatics

These Heavy-Wall pot watering tubes are strong and durable, and resist damage from stretching or abrasion. They hold firmly in the main, forming a water-tight joint which eliminates the need for brass inserts. The tubes are available with 4 inside diameters (all with the same outside diameter) and in many lengths.

Any inside diameter has the same outside diameter, and you can use the same punch for all.

Tube diameters:

- .036" inside diameter can water 1600 pots with a 3/4" supply.
- .050" inside diameter can water 900 pots with a 3/4" supply.
- .060" inside diameter can water 700 pots with a 3/4" supply.*
- .076" inside diameter can water 400 pots with a 3/4" supply.

Item #	Length	Price Each EW Heavy Wall (On All The Time) Tubing*	Item #	Price Each EOW Leader On/Off Tubing*
41-2212	12"	\$0.51	41-3012	\$0.64
41-2218	18"	\$0.53	41-3018	\$0.64
41-2224	24"	\$0.54	41-3024	\$0.67
41-2230	30"	\$0.56	41-3030	\$0.69
41-2236	36"	\$0.57	41-3036	\$0.70
41-2242	42"	\$0.61	41-3042	\$0.73
41-2248	48"	\$0.64	41-3048	\$0.77
41-2260	60"	\$0.70	41-3060	\$0.83
41-2272	72"	\$0.80	41-3072	\$0.93
41-2225	E60-2500 .060 Heavy Wall Tubing Roll			\$51.06
41-2388	EQP Quick Punch EOW60-18 .60 Leader Tubing			\$71.81
41-2389	H Punch for .128 #2 EHPU			\$8.78

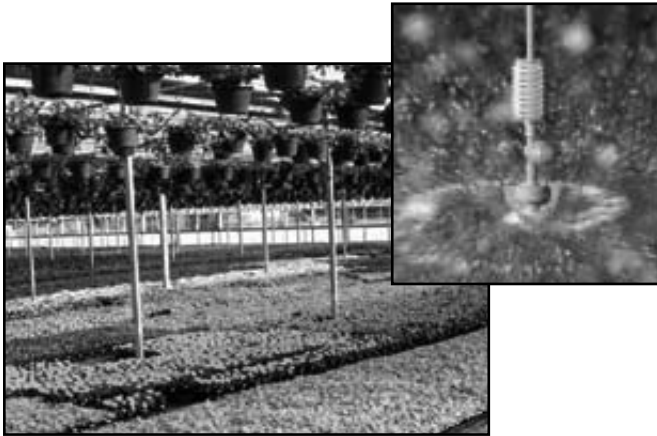
* Pricing shown for .060" inside diameter tubing.



Greenhouse Solutions

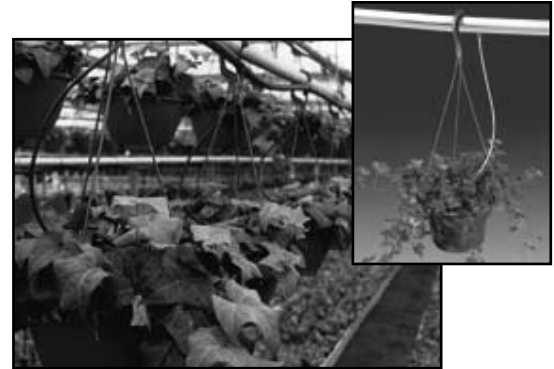
Bedding Plants

- SpinNet Sprinklers
- Single benches to full range selections; greenhouses, hoop houses, shade houses, and open field production
- High uniformity, durability, and low maintenance



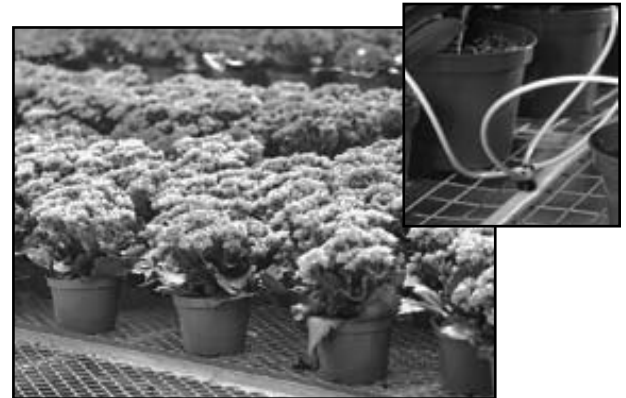
Hanging Baskets

- Plastic Weight Assembly
- Uniform flow regardless of tube length: 12” to 48”
- Quick return on investment compared to hand watering
- Highest industry standard for uniformity and durability



Propagation

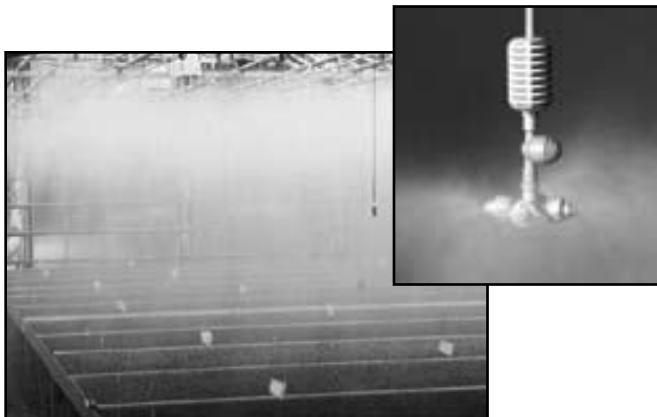
- Micronet Fogger
- Ultra-fine mist for rooting and cooling
- 60 psi produces 90 micron droplets
- Very low maintenance



Potted Plants

MODs

- Multi-Outlet Drippers
- Flexible plant spacing and highly portable
- Precise watering and fertilization
- Highest industry standard for uniformity and durability



System Components

- System efficiency is maximized when all components operate harmoniously
- Netafim offers a complete line of components to ensure system success: automation, valves, filters, pressure regulators, air vents, flow meters, poly pipe, and fittings



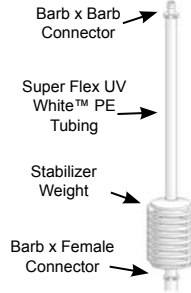
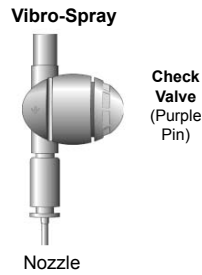
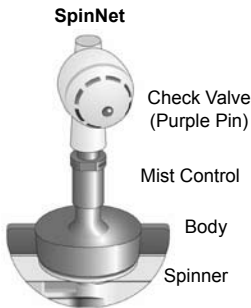
EQUIPMENT

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Sprinkler, Mister, and Fogger Assemblies

Base Assemblies

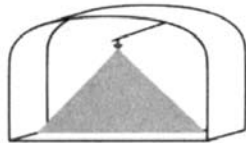


Hanging Sprinkler, Mister, or Fogger Assembly For Connection to Polyethylene (PE) Pipe			
Item #	Tube Length	Bundle Quantity	Price/Each
81-6436	12"	25	\$1.37
81-6437	24"	25	\$1.51
81-6438	30"	25	\$1.56
81-6439	36"	25	\$1.64
81-6440	48"	25	\$1.75
81-6441	Extension	25	\$0.94



Watering (Sprinkling) Head Assemblies			
Item #	Description	Flow	Price/Each
81-6403	Vibro-Spray Green Nozzle with Check Valve	13.6	\$2.83
81-6432	SpinNet Red Body, Red Mist Control, Grey Spinner with Check Valve	18.4	\$2.43
81-6433	SpinNet Red Body, Red Mist Control, Green Spinner with Check Valve	18.4	\$2.43
81-6434	SpinNet Brown Body, Brown Mist Control, Green Spinner with Check Valve	23.4	\$2.43
81-6435	SpinNet Yellow Body, Brown Mist Control, Grey Spinner with Check Valve	23.4	\$2.43

Nominal flow at 30 PSI



Single Bench Solutions			
Bench Width	Spacing Between Sprinklers	Height Above Crop Inverted 2'	Height Above Crop Inverted 4'
4'	3'	VS-GN	VS-GN
5'	3'	VS-GN	VS-GN
6'	3'	VS-GN	VS-GN
7'	3'	SN-RRGY	SN-RRGY
8'	3'	SN-RRGY	SN-RRGY
10'	3'	SN-RRGY	SN-RRGY



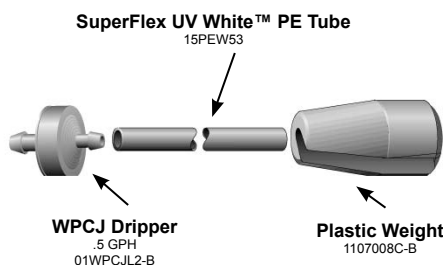
One-Line Solutions for Single Bay or Quonset				
Bench Width	Spacing Between Sprinklers	Height Above Crop Inverted 2'	Height Above Crop Inverted 4'	Height Above Crop Inverted 6'
12'	3'	SN-RRGY	SN-YBGY	SN-YBGY
14'	3"	SN-RRGY	SN-YBGY	SN-YBGY
16'	3'	SN-RRGN	SN-YBGY	SN-YBGY
18'	3'	SN-RRGN	SN-RRGN	SN-YBGY
20'	3'	SN-RRGN	SN-RRGN	SN-BBGN
22'	3'	—	SN-RRGN	SN-BBGN
24'	3'	—	SN-RRGN	SN-BBGN

Two-Line Solutions for Single Bay or Quonset					
Bench Width	Spacing Between Sprinklers	Spacing Between Sprinkler Lines*	Height Above Crop Inverted 2'	Height Above Crop Inverted 4'	Height Above Crop Inverted 6'
24'	3'	14'	SN-RRGY	SN-RRGY	SN-RRGY
26'	3'	14'	SN-RRGY	SN-RRGY	SN-RRGY
28'	3'	14'	SN-RRGY	SN-RRGY	SN-RRGY
30'	3'	16'	SN-RRGY	SN-RRGY	SN-RRGY
32'	3'	18'	SN-RRGN	SN-RRGY	SN-RRGY
34'	3'	20'	SN-RRGN	SN-RRGN	—
36'	3'	21'	SN-RRGN	SN-RRGN	—

* Note that a more symmetrical spacing will also work, e.g. 15' between sprinkler lines for 30' house.



Dripper Assemblies

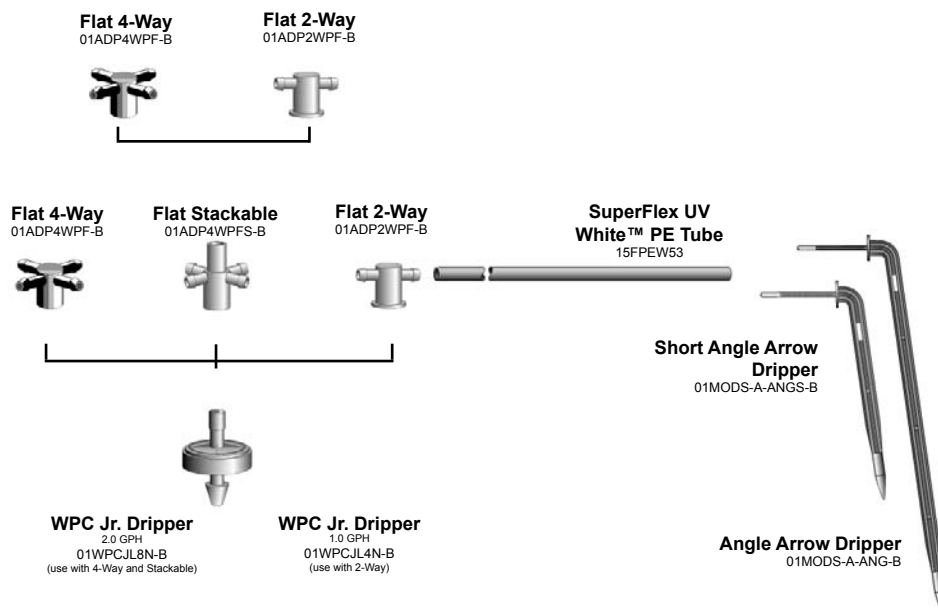


Plastic Weight Assemblies				
Item #	Tube Length	Bundle Quantity	Case Quantity	Price/ Each
81-0122H	18"	25	200	\$0.78
81-0122I	24"	25	200	\$0.83
81-0122J	36"	25	200	\$0.88
81-0122N	48"	25	100	\$1.15

Multi-Outlet Drinker Assemblies


For complete assembly, order one **A** Manifold Assembly and one **B** Woodpecker Pressure Compensating Junior Drinker (bottom of page).

The flow per arrow dripper is equal to the dripper flow divided by the number of arrow drippers on that assembly. To ensure plants will receive equal water flow, use the same assemblies on each zone.



MOD Assemblies with Angle Arrow Drippers


Standard with Super Flex UV White™ PE Tubing

Flat 4-Way 			
Item #	Tube Lengths	Bundle Quantity	Price/ Each
A 81-0859	(4) at 18"	25	\$1.79
81-0860	(2) at 18" & (2) at 30"	25	\$1.95
81-0863	(2) at 24" & (2) at 48"	25	\$3.00
81-0861	(4) at 30"	25	\$2.12
B 81-0858	WPC Jr. Drinker 2.0 GPH	25	\$0.27
81-0862	EWPC20 Large Emitter	—	\$0.44

Note: Sold in Bundle Quantities ONLY.

MOD Assemblies with Short Angle Arrow Drippers

Standard with Super Flex UV White™ PE Tubing

Flat 4-Way 			
Item #	Tube Lengths	Bundle Quantity	Price/ Each
SPECIAL ORDER	(4) at 18"	25	\$1.54
	(2) at 18" & (2) at 30"	25	\$1.71
	(4) at 24"	25	\$1.73
	WPC Jr. Drinker 2.0 GPH	25	\$0.27

Note: Sold in Bundle Quantities ONLY.

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Pressure Regulators

For use in drip and sprinkler irrigation systems.

- Instant response to variations in pressure assures that outlet pressure will remain constant regardless of inlet pressure.
- Pressure Regulators are preset with flows from 3.5 to 175 GPM.
- Manufactured from non-corrosive, high quality plastic and brass, to withstand all fertilizers and chemicals in common use.
- Regulating unit has a stainless steel spring and screw.
- The EDPM rubber diaphragm creates a tight seal eliminating leakage.
- The rise versus the decline in outlet pressure has significantly decreased ensuring better hydraulic performance.
- Sealed regulating unit is field replaceable and easy to maintain.
- Built-in operating indicator visually shows when proper outlet pressure is achieved.
- New regulating units are compatible with existing Pressure Regulator bodies.



3/4" Low Flow Pressure Regulator



3/4" Pressure Regulator



2" Pressure Regulator



1 1/2" Pressure Regulator

Pressure Regulators for Sprinklers, Misters, and Foggers			
Item #	Valve	Note:	Price
81-6060	3/4" 35 PSI	4 GPM, for up to 12 sprinklers or up to 36 misters	\$8.60
81-0942A	3/4" 35 PSI	17 GPM, for up to 45 sprinklers	\$11.52
81-0945D	1.5" 35 PSI	35 GPM	\$35.59
81-6416A	2" 35 PSI	70 GPM	\$137.47
81-6416	3/4" 43 PSI	Foggers	\$11.52

Filters			
Item #	Filter	GPM	Price
81-0347	3/4" 120 Mesh	12	\$21.67
81-0350	3/4" 120 Mesh with Valve	—	\$34.77
81-0348	3/4" 140 Mesh for Foggers	12	\$21.67
81-0355	1" 120 Mesh	20	\$69.77
81-0356	1" Super 120 Mesh	—	\$106.00
81-0360	1 1/2" 120 Mesh	40	\$145.88
81-0365	2" 120 Mesh	90	\$375.19
81-6224A	3mm Punch for Drippers and Sprinklers	—	\$11.44

Filters

3/4" Filter

Flow range: 1-12 GPM
 Maximum pressure: 140 PSI
 Filtering surface area: 24.8 sq. in.
 Filtering volume: 5.8 cu. in.
 Length: 8 1/16"
 Width: 9 5/8"
 Weight: .8 lbs.
 Distance between end connections: 6"
 Inlet/outlet diameter: 3/4" male
 Part Number: 25A45-XXX1



1" Filter

Flow range: 5-26 GPM
 Maximum pressure: 140 PSI
 Filtering surface area: 48.91 sq. in.
 Filtering volume: 26.8 cu. in.
 Length: 8 7/8"
 Width: 5 1/8"
 Weight: 2.4 lbs.
 Distance between end connections: 6 7/32"
 Inlet/outlet diameter: 1" male
 Part Number: 25A47-XXX3



1 1/2" Super Filter

Flow range: 10-52 GPM
 Maximum pressure: 140 PSI
 Filtering surface area: 77.8 sq. in.
 Filtering volume: 36.1 cu. in.
 Length: 14 1/16"
 Width: 5 1/8"
 Weight: 3.32 lbs.
 Distance between end connections: 7 7/8"
 Inlet/outlet diameter: 1 1/2" male
 Part Number: 25A17-XXX



2" Dual Filter

Flow range: 40-120 GPM
 Maximum pressure: 174 PSI
 Filtering surface area: 148 sq. in.
 Filtering volume: 75 cu. in.
 Length: 18 5/16"
 Width: 7 7/8"
 Weight: 11 lbs.
 Distance between end connections: 10 1/4"
 Inlet/outlet diameter: 2" male
 Part Number: 25A30-XXX



Remember the Punch!

Punch for installing the drop tube into the supply line.



Spray Stake Assemblies

Netafim Spray Stake Assemblies are specifically designed and matched to the container shape producing uniform and accurate wetting patterns for nursery containers from 3 to 30 gallons in size. They are an excellent solution where the primary means of fertilization is top dressing and where very coarse textured bark mixes are used.

PCNL SPRAY STAKES

Netafim's new PCNL Spray Stake Assemblies are pressure compensating with a check valve for improved control of water and fertilizers. The efficient spray pattern evenly wets the soil surface to maximize water retention while misting is nearly eliminated and wind drift is prevented. Additional features include: simple construction, easy close-off mechanism, highly resistant to sunlight, fertilizers and chemicals, and long-life reliability.

DESIGN VERSATILITY

Netafim Spray Stakes are available in two styles:

PCNL Pressure Compensating Assemblies are recommended for longer length rows and sloping terrain.

- Plum PCNL Spray Stake Assembly, 3.2 GPH, single spray pattern, used with 3- to 5-gallon containers
- Grey PCNL Spray Stake Assembly, 6.6 GPH, single or double spray patterns, used with 5- to 30-gallon containers

Non-Pressure Compensating Assemblies are available in three flow rates with applications based on the container size.

- Yellow Spray Stake: 3.0 GPH, used with 3- to 5-gallon containers
- Green Spray Stake: 5.0 GPH, used with 5- to 10-gallon containers
- Black Spray Stake: 7.0 GPH, used with 10- to 30-gallon containers

Spray Stakes			
Item #	Description	GPH	Price
81-0326	Yellow Spray Stake	3	\$0.21
81-0177A	Green Spray Stake	5	\$0.21
81-0177B	Black Spray Stake	7	\$0.21
81-0010W	1000' Roll Superflex PE White Tubing	—	\$49.15
81-0146	5mm Nipple for Spray Stake Tubing	—	\$0.13

NOTE: No dripper is used for non-pressure compensated systems.



PCNL Grey Spray Stake Assembly — Double Pattern



PCNL Plum Spray Stake Assembly — Single Pattern

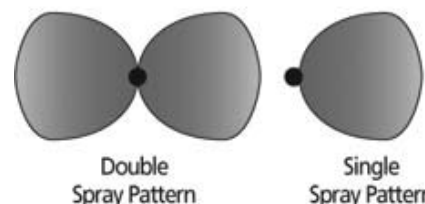
Pressure-Compensating Spray Stakes		
Item #	Description	Price
81-0177P	Plum Spray Stake Single Pattern	\$0.22
81-0177GD	Grey Spray Stake Double Pattern	\$0.22
81-0166A	PCNL Grey Spray Stake Assembly 36" 6.6 GPH (minus stake)*	\$0.61
81-0132	PCNL Plum Spray Stake Assembly 36" 3.2 GPH (minus stake)*	\$0.61
81-0010W	1000' Roll Superflex PE White Tubing	\$49.15
81-0653	Flex Tube Adaptor 3mm	\$0.09
81-0649B	WPC Dripper 6.6 GPH (for black spray stake)	\$0.44
OR YOU MAY ORDER A PREASSEMBLED UNIT WITH 36" TUBE LENGTH:		
D20582	36" Pressure Compensated Black Spray Stake 6.6 GPH	\$1.16

* Must order stake separately along with 36" assembly.

Non-Pressure Compensating Spray Stake Assemblies			
Item #	Description	GPH	Price
D24555	36" Yellow Spray Stake Assembly	3	\$0.63
81-0177	36" Green Spray Stake Assembly	5	\$0.63
D24655	36" Black Spray Stake Assembly	7	\$0.63

EFFICIENT SPRAY PATTERN

Netafim Spray Stakes are specifically designed and matched to the container shape. They are designed to wet the soil surface evenly to maximize water retention by the soil mix and evenly release liquid or timed-release fertilizers.



EQUIPMENT



Nursery Solutions

Containers

Spray Stakes

- Spray Stake — including the new PCNL
- Improved control of water and fertilizer
- Efficient spray patterns evenly wet the soil surface
- Simple, durable, long-life products



Sprinklers

- Vibro-Spray (HF) Sprinklers
- Low pressure operation creates energy savings
- Unparalleled uniformity

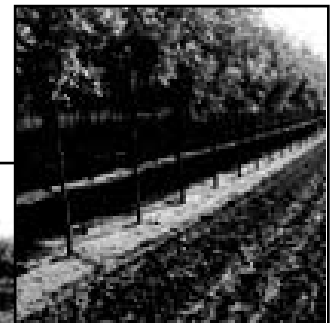


EQUIPMENT

In Ground Production

UniRam and DripNet PC Dripperlines

- Maximum uniformity
- Highest industry standard for quality and durability
- Long life — 1 to 20 years
- Full selection of flow rates designed to maximize usage of available water



Drippers and Dripperlines

- Featuring new UniRam 2VC
- Full selection of flow rates designed to maximize usage of available water
- Solutions for a wide variety of layouts and topographies



Tubing, Fittings, and Miscellaneous Supplies

Plastic Pipe for Supply Lines

Netafim polyethylene (PE) pipe and tubing is specially formulated to be soft enough to punch easily. It also reflexes back around the barbs on drippers and fittings to ensure a leak-free installation.

Item #	Description	Price
81-0000H	16mm x 1000' roll black PE pipe	\$131.27
81-0000I	16mm x 500' roll black PE pipe	\$69.24
81-0000J	16mm x 100' roll black PE pipe	\$18.06
81-0000EB	3/4" x 500' roll black PE pipe	\$114.21
81-0000E	3/4" x 250' roll black PE pipe	\$57.11
81-0000EA	3/4" x 100' roll black PE pipe	\$22.84
81-0000FA	1" x 500' roll black PE pipe	\$185.53
81-0000FB	1" x 100' roll black PE pipe	\$37.11
81-0013	16mm x 1000' 18" Pre-punched	\$151.94
81-0014	16mm x 1000' 24" Pre-punched	\$146.93

NOTE: 16mm, 3/4" and 1" PE pipe is available in white. This is a special order item. 15% upcharge over black.

Fittings for Netafim Pipe

Item #	Description	Price
81-0160	16mm Insert Coupling	\$0.40
81-0140	16mm Insert Tee	\$0.68
81-0255	16mm x 3/4" Male Pipe Thread	\$0.88
81-0170	16/17mm Figure 8 Line End	\$0.17
81-0155	16mm Insert Elbow	\$0.59
37-3011A	1" Cross	\$5.33
37-3012A	3/4" Insert Coupling	\$0.92
37-3000A	3/4" Insert Tee	\$1.79
37-3006A	3/4" Insert Elbow	\$1.83
37-3016A	Female Adaptor 1 x Female Pipe Thread	\$4.09
37-3017A	3/4" Insert x 3/4" Male Pipe Thread	\$0.92
37-3031A	Plug 1	\$1.42
81-0826	3/4" Figure 8 Line End	\$1.08
37-3012B	1" Insert Coupling	\$0.79
37-3000B	1" Insert Tee	\$2.59
37-3017B	1" Insert x Male Pipe Thread	\$0.96
81-0827	1" Figure 8 Line End	\$1.58
37-3038	Red, Male Adaptor, 1" mipt x 3/4" for Sol. Valves	\$2.21
37-3038A	Red, Male 3/4" mipt x 1"	\$2.46
37-3040	Clamps	\$0.59

Valves

Netafim also has 3/4" & 1" electric valves for battery operation.

Item #	Description	Price
81-0172	16mm Inline Shut-off Valve	\$2.38
81-0832	3/4" Inline Shut-off Valve	\$6.03
81-0869	1" Electric Valve (24 volts AC)	\$2.38



Plastic Tubing

For sprinklers, drippers, MOD systems & spray stakes
Netafim tubing is white! It's fully UV resistant and completely opaque to prevent algae growth.

Item #	Description	Price
81-0010W	5/3mm White PE Tubing 1000' Roll (for baskets, MOD systems, and spray stakes)	\$49.15
D23418	4/7mm White PE Tubing 1000' Roll (for sprinklers, misters, and foggers)	\$18.00

Controllers

AquaPro Controllers: Controller and valve in one!

Item #	Description	Price
D25720	Aqua Pro Controller WITH 3/4" DC Valve	\$41.00
81-0100	Aqua Pro Controller WITH 1" DC valve	\$106.94



EQUIPMENT

Other Common Parts

Item #	Description	Price
81-0120A	0.5 GPH Compensating Woodpecker Dripper	\$0.30
81-0010	Spaghetti Tubing 1000' Coil	\$61.87
81-0518	Angle Arrow Stake	\$0.21
81-0331	2 GPH 8-Way MOD Dripper only	\$1.11
81-0856	4-Way Flat Manifold only	\$0.21
81-0165	Goof Plug	\$0.21
81-0167	Plastic Weight	\$0.28
81-0000J	100' Coil of 16mm Tubing	\$18.06
81-0000I	500' Coil of 16mm Tubing	\$69.24
81-0000H	1000' Coil of 16mm Tubing	\$131.27
81-0000EA	100' Coil of 3/4" Tubing	\$22.84
81-0000EB	500' Coil of 3/4" Tubing	\$114.21
81-0170	Figure 8 Line End for 16mm Tubing	\$0.17
81-0155	16mm Elbow	\$0.59
81-0140	16mm Tee	\$0.68
81-0160	16mm Coupling	\$0.40
81-0255	3/4" x 16mm Male Adaptor	\$0.88
81-0172	16mm In-Line Shut Off	\$2.38
37-3040	Hose Clamp for 3/4" — 1-1 1/4" Tubing	\$0.59
37-4194	3/4" Comb Insert Tee (Ins x Ins x Fem)	\$2.68
37-4207	3/4" Comb Insert Elbow (Ins x Fem)	\$1.58
81-0347	120 Mesh 3/4" Filter, 0-18 GPM	\$21.67
37-3031A	3/4" Insert Plug	\$1.42
37-3032A	3/4" Threaded PVC Ball Valve	\$6.08
81-0940	20 PSI Pressure Regulator, 3.5-20 GPM	\$11.52
81-0942A	35 PSI Pressure Regulator, 3.5-20 GPM	\$11.52
D22275	100 Sprinkler Shut-off Cap	\$6.92
81-0125	Dripper Shut-off Cap	\$0.17
81-0165	10 Goof Plugs (to fill misspunched holes)	\$0.12
81-0167	Red Plastic Weight	\$0.28

DAN Foggers

For Cooling and Humidification to help create the perfect growing environment.

Features:

Recommended pressure range of 35 to 45 PSI.

One fogger should be used for every 2.5 square feet. The cross with four foggers will cover an area up to 10 square feet.

Foggers should be installed at a height of 3 to 5 feet above the propagation material.



Fogger Assembly

Item #	Description	Price
Foggers		
81-6395	Red Fogger 5.2 GPH	\$1.40
81-6396	Orange Fogger 3.2 GPH	\$1.40
81-6397	Blue Fogger 1.6 GPH	\$1.40
81-6041	4-Way Cross for Fogger	\$1.50
81-6042	Plug for 4-Way Cross	\$0.24
81-6038	High Pressure LPD	\$1.45

The spacing between the fogger assemblies should be 3 feet. Multiple flow rates for different precipitation rates.

EQUIPMENT

Dan Misting Nozzles for Propagation, Tube Weight Assemblies, & Accessories

Item #	Description	Price
Misting Nozzles		
81-6348	Violet Spreader Violet Nozzle LPD 3' dia., 9.5 GPH at 30 PSI	\$2.50
81-6349	Violet Spreader Gray Nozzle & LPD 4" dia., 19 GPH at 30 PSI	\$2.50

Item #	Size	Price
Tube Weight Assemblies		
81-6229	24"	\$1.56
81-6229A	30"	\$1.63
81-6229B	36"	\$1.66
81-6229C	48"	\$1.76
81-6229D	60"	\$1.74

Item #	Description	Price
Accessories		
30-0505	Dramm Assembly Insert	\$0.27
81-6035	Dan 1/2" Male Base	\$0.52
81-6045	Dan Barbed Butterfly Base	\$0.41
81-6100	Dan 3/8" Tapered Thread Butterfly	\$0.44
81-6039	Leak Prevention Device	\$1.49
32-1000C	Plastic Adaptor 6mm x 7.5mm	\$0.29

DAN Modular Micro Sprinkler & Sprayer Group

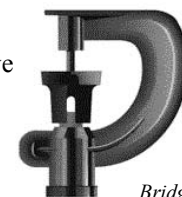
(formerly known as 7000 and 8000 series)

A wide range of Micro Sprinklers and Sprayers which covers the demanding needs of an energy efficient yet extremely consistent irrigation system.

The DAN Modular Group Sprinklers (formerly known as 8000 series) and Sprayers (formerly known as 7000 series)

consists of a common bridge or body with multiple options for nozzle size, spray pattern, droplet size, and mounting options.

- The modular design offers comprehensive flexibility in an irrigation system
- Provides a range of desired droplet sizes from fog to mist to large droplets.
- Wide variety of patterns and diameters



Bridge

Green nozzle/green antimist	11 GPH at 30 PSI
Orange nozzle/orange antimist	19 GPH at 30 PSI
Yellow nozzle/yellow antimist	25 GPH at 30 PSI
Blue nozzle/blue antimist	33 GPH at 30 PSI



Violet Mister: Produces minimum droplet size for misting applications.



Black Round Spinner: High distribution uniformity and mid-range pattern with medium droplet size.



Yellow Flat: Flat pattern with excellent distribution and medium droplet size.



Green Kiwi Spinner: Installed upside down for use in overhead systems.

Item #	Description	Wetting Diameter (ft.)	Price
Mini Sprinklers			
81-6356	Yellow flat spreader with green nozzle, antimist and LPD	4'-5' upright or inverted	\$2.75
81-6355	Yellow flat spreader with orange nozzle, antimist and LPD	6' upright; 5'-8' inverted	\$2.75
81-6353	Green kiwi spinner with orange nozzle, orange antimist and LPD	7'-8' upright; 14'-16' inverted	\$2.75
81-5201F	Green kiwi spinner with green nozzle, green antimist and LPD	10' upright	\$2.75
81-6354	Black round with yellow nozzle, yellow antimist and LPD	10'-14' upright; 12'-15' inverted	\$2.75
81-6350	Black round with orange nozzle, orange antimist and LPD	10'-12' inverted	\$2.57
81-6346	Black round with green nozzle, green antimist and LPD	8' inverted	\$2.75
81-6352	Green kiwi blue nozzle, blue antimist and LPD	16'-18' inverted	\$2.75

FOGCO Systems

FOGCO Systems are fast becoming standard equipment for all greenhouse applications. Although a fog system cannot control or affect all variables, it can have a positive impact by regulating the temperature, humidity and moisture content within the greenhouse.

Fog systems are ideal for addressing and correcting the problems associated with high temperatures and/or low humidity levels. This will promote increased health and productivity within the greenhouse by eliminating 'plant water stress', one of the most significant factors in the growth of all plants.



Features:

- Ensures proper humidity levels
- Reduces demand for moisture
- Maintains favorable conditions
- Creates in-house propagation stock
- Reduces need for shading/whitewashing
- Reduces irrigation/water consumption
- Improves overall greenhouse productivity



EQUIPMENT

Please call for custom design and pricing to meet your specific requirements.



SCANAWAY

Filters

Screen Filters and SCANAWAY

The SCANAWAY assembly consists of a hollow pipe with suction nozzles facing the inner side of the screen. Opening the exhaust valve at the filter lid creates low pressure

conditions, causing the scanner nozzles to suck in the dirt from the screen surface and expel the dislodged particle out through the valve. A simple turn of a handle causes the scanner to rotate and scan the whole screen surface.

Item #	Description	Price
37-1082A	3/4" Amiad Screen Filter with valve, 120 mesh	\$25.00
37-1082G	3/4" Amiad Screen Filter with valve, 155 mesh	\$25.00
37-1082	1" Amiad Screen filter with valve, 120 Mesh	\$63.00
37-1082B	1" Amiad Screen Filter with valve, 155 mesh	\$63.00
37-1082D	1.5" Amiad Screen Filter with valve, 155 mesh	\$137.00
37-1082C	1.5" Amiad Screen Filter with valve, 155 mesh	\$137.00
37-1083B	2" Amiad Screen Filter with valve, 120 mesh	\$317.33
37-1083A	2" Amiad Screen Filter with valve, 155 mesh	\$317.33
37-1085	2" Amiad Scanaway Filter, 120 mesh	\$565.00
37-1085A	2" Amiad Scanaway Filter, 155 mesh	\$565.00



Pressure Regulators

Pressure regulators automatically regulate water pressure in pipes or tubing downstream of its location. Pressure regulators have become effective tools extensively used in solid-set, mechanical-move, and low-volume irrigation systems to take a finite amount of water and apply it uniformly over a specific area.

Uncontrolled pressure fluctuations into emission devices result in unwanted flow deviations and lower distribution uniformities. Common causes of pressure variation include changes in system demand and/or water supply and friction loss through pipe and fittings.

Proper use of pressure regulators prevents pressure fluctuations from diminishing the distribution uniformity and economic efficiency of an irrigation system.

Features:

- Above or below ground installation
- Maintains a constant preset outlet pressure while handling varying inlet pressures
- Withstands severe water hammer
- Maximum flow path resists plugging
- 100% water tested for accuracy (no adjustments ever needed)



Item #	Description	Flow Range	Price
37-2101	Pressure Regulator 3/4" 20 PSI	2-20 GPM	\$12.21
37-2104	Pressure Regulator 3/4" 12 PSI	0.1-8 GPM	\$9.93
37-2106	Pressure Regulator 3/4" 15 PSI	2-20 GPM	\$12.21
37-2102	Pressure Regulator 3/4" 20 PSI	0.1-8 GPM	\$9.93
37-2107	Pressure Regulator 3/4" 40 PSI	2-20 GPM	\$12.21
37-2105	Pressure Regulator 3/4" 30 PSI	0.1-8 GPM	\$9.93

Low-Flow (PMR-LF)

- 9 factory preset operating pressures 6 to 40 psi (0.41 to 2.76 bars)
- Flow range from 0.1 to 8 GPM (0.006 to 0.50 L/s)

Medium-Flow (PRM-MF)

- 11 factory preset operating pressures 6 to 60 psi (0.41 to 4.14 bars)
- Flow range from 2 to 20 GPM (0.13 to 1.26 L/s)

Sprinklers

Outstanding performance for upright applications. The Senninger mini-Wobbler[®] employs the same unique off-center rotary-action as the standard Wobbler[®].

It provides extremely uniform coverage over a large diameter at low pressures. It is constructed entirely of engineering-grade thermoplastics for excellent corrosion resistance

Features:

- Low evaporative loss
- Multi-level throw, approximate angle: 10°
- Color-coded nozzles for easy size identification
- Flow rates: 0.42 to 2.61 GPM (97.2 to 576.0 L/hr)
- Operating pressures: 15 to 35 psi (1.0 to 2.5 bar)
- Standard inlet: 1/2" NPT male

Item #	Description	Price
32-0489	Inverted Mini Wobbler #5 Beige	\$4.74
32-0488A	Inverted Mini Wobbler #6 Gold	\$4.74
32-0488	Inverted Mini Wobbler #8 Lavendar	\$4.74
32-0487	Mini Wobbler #4 Light Blue	\$4.74
32-0486A	Mini Wobbler #6 Gold Nozzle	\$4.74
32-0486	Mini Wobbler 1/2" Male Base Lavendar #8	\$4.74

