



DRAMM®
COMMERCIAL SOLUTIONS

Integrated Plant Health

The Damm Corporation got its start in 1941 when growers commented to florist and inventor, John Damm, that they had no good way to water their plants. John's solution was to develop the Aluminum 400 Water Breaker® Nozzle, still the standard in hand watering tools across the world today. This spirit of innovation and commitment to a solution continues today at Damm. With every product Damm produces, the intent is to provide the best solution to our customers. From the beginning, Damm has focused on technical products that affect plant growth. Each of these systems overlap. Combining an expertise in greenhouse systems produces a better overall result. This approach is something we call Integrated Plant Health.

Look for Damm to continue to offer innovative products. With your input, we are able to develop the next generation of solutions for the needs of the industry.

Table of Contents

Watering Tools & Accessories	pg 3
ColorStorm™ Premium Rubber Hose	pg 10
Retail Products	pg 11
DRAMMwater	pg 12
Irrigation Systems	pg 13
Drammatic™ Liquid Fish Fertilizer	pg 27
Environmental Controls	pg 28
Humidity Management	pg 29
Hydraulic Sprayers	pg 30
Foam Equipment	pg 32
Chemical Application Equipment	pg 33
Water Carts	pg 41

Scan for Water Tool
videos, more detail,
product forum and
more.



Watering Tools

400AL WATER BREAKER® NOZZLE



Original professional nozzle. Crafted of cast aluminum and brass. Gentle, full flow at 11.1 gpm*



170AL WATER BREAKER® NOZZLE



Crafted of cast aluminum and brass. Narrow pattern for containers/baskets or low pressure systems. Flow at 7gpm*



1000PL REDHEAD® NOZZLE- medium



Softest full flow available. Water plugs or seedlings. ABS plastic & stainless steel with over 1000 micro-holes. Medium pattern with flow at 8 gpm*



1000PL-N NOZZLE- narrow



Softest full flow available. Water plugs or seedlings. ABS plastic & stainless steel with over 1000 micro-holes. Narrow pattern. Flow at 8 gpm*



1000PL-W NOZZLE- wide



Softest full flow available. Water plugs or seedlings. ABS plastic & stainless steel with over 1000 micro-holes. Wider pattern with flow at 8 gpm*



750PL LEMONHEAD® NOZZLE



Soft full flow watering- great when other nozzles have too much flow. ABS plastic & stainless steel with 750 holes create a soft shower at 8 gpm*



 operational video available online

* water output measured at 40psi

Watering Tools

480AL WATER BREAKER® NOZZLE



Narrow pattern for edge watering. Cast aluminum & stainless steel with over 480 micro holes. Gently waters at 7 gpm*



480PL WATER BREAKER® NOZZLE



Narrower pattern for edge watering. ABS plastic & stainless steel with over 480 micro holes. Gently waters at 7 gpm*



400PL WATER BREAKER® NOZZLE



Professional's lightweight alternative to the 400AL. ABS plastic & stainless steel. Gentle, full flow at 11.1 gpm* Available with Bumper



170PL WATER BREAKER® NOZZLE



Professional's lightweight alternative to 170AL. ABS & stainless steel. Narrow pattern for containers/baskets, or low pressure. Flow at 7 gpm*



PLASTIC FAN NOZZLE- commercial



Rectangular shape for seedling trays and flats. Corrosion-proof head. Medium flow at 5-7 gpm*



350PL SCREEN-AIRE™



Water large, or nursery containers with increased speed. Gentle, concentrated, aerated flow at 18 gpm*



* water output measured at 40psi

www.dramm.com

ORDER: 920.684.0227

Watering Tools

610SF FOGG-IT® NOZZLE- super fine



Mist delicate seedlings, raise humidity around wilting plants. Three mist jets create a conical pattern at 1/2 gpm*



610F FOGG-IT® NOZZLE- fine



Mist delicate seedlings, raise humidity around wilting plants. Three mist jets create a conical pattern at 1 gpm*



610L FOGG-IT® NOZZLE- low



Mist delicate seedlings, raise humidity around wilting plants. Three mist jets create a conical pattern at 2 gpm*



610H FOGG-IT® NOZZLE- high



Mist delicate seedlings, raise humidity around wilting plants. Three mist jets create a conical pattern at 4 gpm*



510 BRASS SEEDLING® NOZZLE



Water fragile plants, seedlings, or cuttings. Produces an extra fine, hollow "cone mist pattern" at 1/2 gpm*



540 BRASS ROSE



Water bedding plants, pots or market packs. Extra wide spray increases hand watering speed with 18-20 gpm*

protective rubber guard & Metric-to-Inch hose thread converter

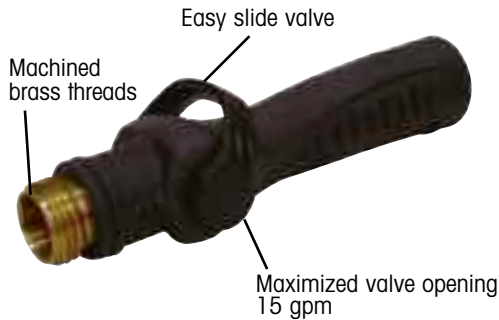
 operational video available online

* water output measured at 40psi

ORDER: 920.684.0227

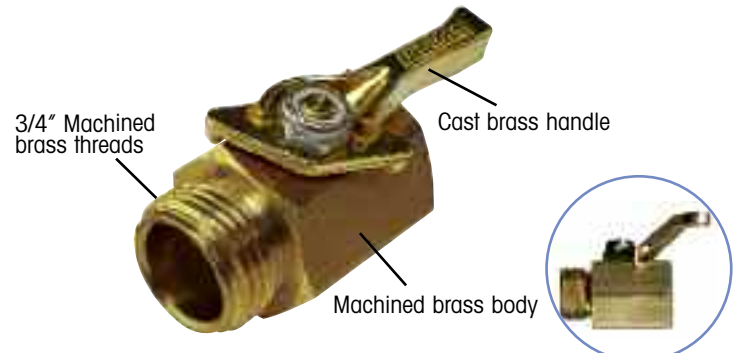
Watering Tools

ONE TOUCH™ HIGH FLOW VALVE



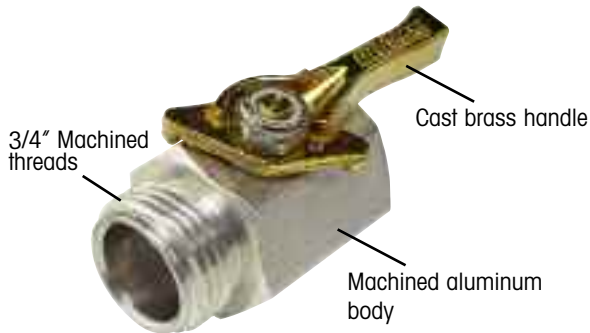
Fingertip water control. Zinc die-cast body & nylon valve components for long life. Designed for precision water flow.

300 BRASS SHUT-OFF- high flow



The Brass shut-off offers unmatched durability and full flow. Designed with replaceable internal components and a 1/2" ball opening.

300AL ALUMINUM SHUT-OFF- high flow



The Aluminum shut-off offers unmatched durability in lightweight, fatigue reducing aluminum. Same internal components as the 300 Brass.

74 SHUT-OFF- high flow



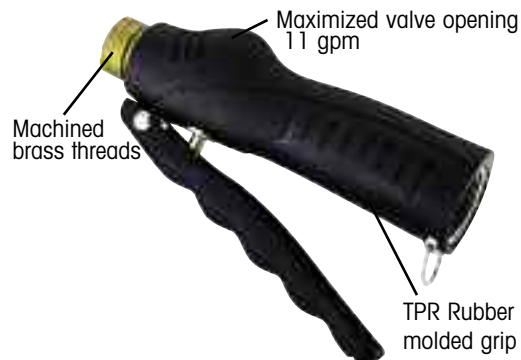
Ultra heavy duty, lightweight valve with 5/8" ball opening for full water flow. Designed for all day use.

72318 QAV SHUT-OFF- medium flow



The QAV shut-off is lightweight and made of durable plastic. Large valve handle and innovative seal design for dependable use.

65 TOUCH 'N FLOW PRO™ - medium flow



Durable trigger style brass & nylon valve. Heavy-gauge wire latch reduces hand fatigue, higher flow rate works well with 400 Water Breaker™ Nozzle.

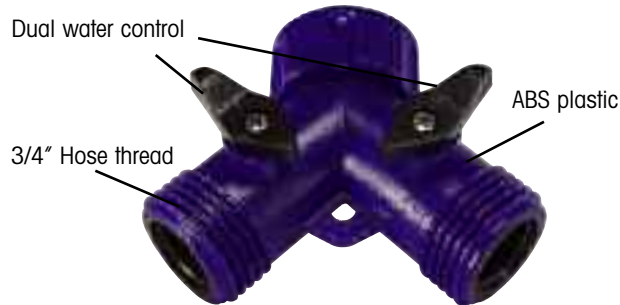
* water output measured at 40psi

www.dramm.com

ORDER: 920.684.0227 6

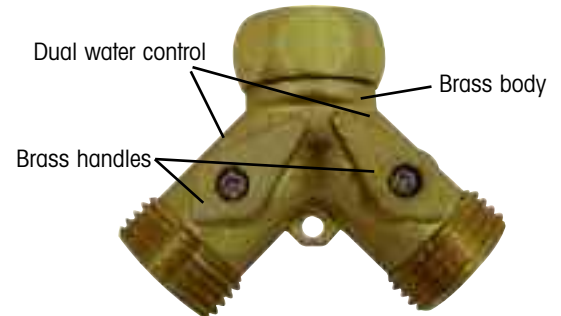
Watering Tools

235 TWIN SHUT-OFF- low flow



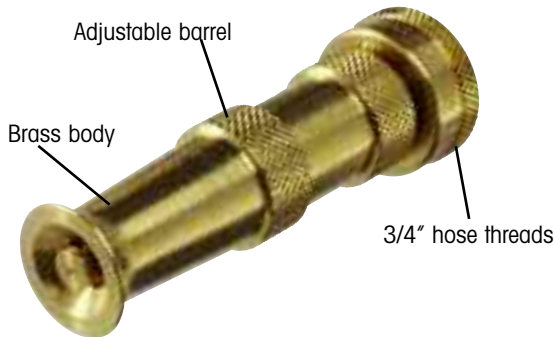
Water two places at one time. Durable, light-weight ABS body & handles with 3/4" male and female hose thread.

235B TWIN SHUT-OFF BRASS- low flow



Water two places at one time. Heavy duty brass body & handles with 3/4" male and female hose thread.

800 ADJUSTABLE NOZZLE



Solid brass adjustable nozzle. Traditional styling with twist barrel to adjust water from fan to cone to powerful stream. Great cleanup nozzle.

BRASS HOSE SWIVEL



Brass swivel works under pressure & allows hose-end accessories to turn independently of hose. Commercial duty for every watering need.

IN-LINE HOSE FILTER



80 Mesh nylon filter eliminates dirt, debris & nozzle clogging. Use with any Dramm Water Breaker® nozzle to eliminate clogs.
*200 mesh also available

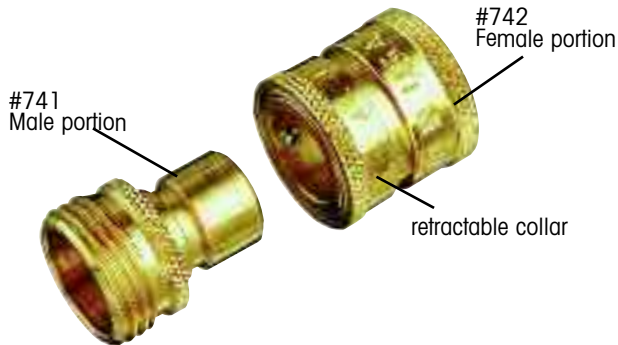
22309 EASY CLEAN™ FILTER



In-line 80 Mesh filter for use at hose-end or spigot. Removable filter element for easy cleaning.

Watering Tools

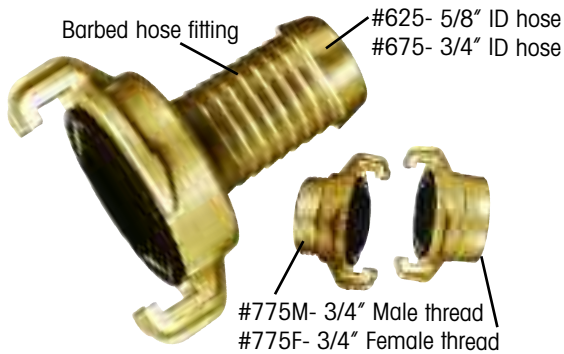
BRASS DISCONNECT



Heavy duty brass quick disconnect available as male, female, or pair (#740). No more turning! Pull collar back to quickly connect or disconnect accessories.

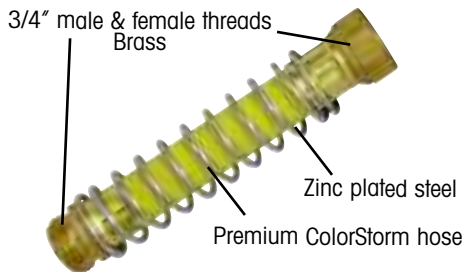
Stopper version available: #743

BRASS TWISTY QUICKS™



1/4 Turn Disconnect for use with blunt cut hoses. Makes any threaded hose connection easy to couple/uncouple. Forged brass.

HOSE PROTECTOR



Quickly connects between faucet and hose to save hose ends from stress & strain. Prevents hose-end kinking & damage to couplings.

TWISTY QUICK™



Quick hose connection made of super tough DuPont® nylon. Eliminates the hassle of connecting and disconnecting hose & hose-end accessories. Pairs only.

HANDI-REACH™ or HANGING BASKET HANDLE



Eliminate stretching & stooping associated with hand watering. Compatible with any Damm nozzle. Multiple lengths available.

- 90° Bend Waters Hard-To-Reach Hanging Baskets Easily
- Compatible with 170 Water Breakers for Basket Watering

Watering Tools

SWISS WATERING CANS



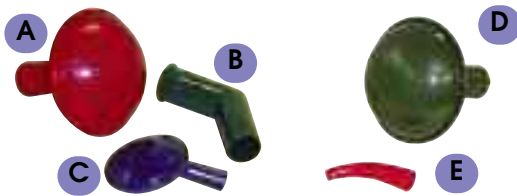
Professional watering cans with superior design & durability. 10 Liter (2 1/2 gal) Swiss made can with elbow. Red or Green.

U.S.A. 2, 5, & 7 LITER CANS



Professional watering cans with superior design & durability. American made can available in Red, Orange, Yellow, Green, Blue and Berry. 2 Liter (1/2 gal), 5 Liter (1 1/3 gal), 7 Liter (1 3/4 gal).

REPLACEMENT ROSES



A. 10 liter Rose B. 10 Liter Spout C. 2 Liter Rose
D. 7 Liter Rose E. 2 Liter Spout



HANGING BASKET REMOVER



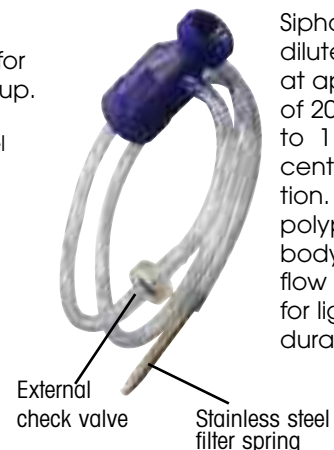
10" Ring conveniently removes hanging baskets from above. 8" or 12" Rings also available. Basket remover rod available in 3', 5', or 7 ft.

PICK-UP STIX™



Jumbo tweezers for litter pick up. Aluminum Plated steel w/Comfort Grip

SYPHONJECT™



Siphon mixer dilutes mixtures at approx. ratio of 20 parts water to 1 part concentrated solution. Filled polypropylene body, w/back flow preventer, for lightweight durability.

ColorStorm Hose

Dramm ColorStorm™ Professional Hose delivers the same quality you have come to expect from Dramm watering tools.

Dramm ColorStorm Professional Rubber Hose is made from EPDM rubber for a "crackless" hose cover that is resistant to abrasion and weathering. This reinforced hose is hexagonal in shape to reduce kinking. The design of the hose allows a user to easily pull free any kinks that may occur. Our hexagonal Sure-Grip™ cover creates a softer surface for a more comfortable grip.

Each hose has crush-proof, nickel plated, brass fittings for an exact fit that will survive years of use. Finally, to enhance visibility, ColorStorm-Professional Rubber Hose is bright yellow to prevent tripping.



5/8", 3/4" or 1" Diameter for full water flow. Available in multiple lengths with custom lengths available.
130 psi working pressure.

Make Your Own Lengths

with Dramm custom fitting equipment and bulk hose.



Bulk Hose

Hose Swivel

Dramm Press

Fittings



Sure-Grip™ Technology

- Durable, Abrasion Resistant Cover
- Increased Comfort



Crush-Proof Fittings

- Nickel Plated Brass Couplings
- Corrosion Resistant
- Crush Proof



Kink Resistant

- Coils Easily
- Flexible to -25° F



Hot Water Resistant to 160°F



Bright Yellow for Visibility



Says "Don't Trip"

ColorStorm™ Soaker Hose

Professional grade rubber soaker hose available in multiple lengths. Thicker wall prevents "geyser" effect and promotes even watering from beginning to end of hose.



Retail Products

Dramm offers the same professional quality products, in retail packaging, for sale in your store. Offer your customers the same quality you rely on to use in their gardens.

Our products are minimally packaged on unique, easy to assemble and position, mobile displays. Each display combines an assortment of product in a small footprint to maximize your square foot sales.

Dramm offers a variety of watering tools, our ColorStorm hose, and a series of cutting tools in an assortment of colors.

Contact us for a complete Retail Catalog.



60137 Watering Tools



65085 Sprinklers/Hose



60094 Watering Tools



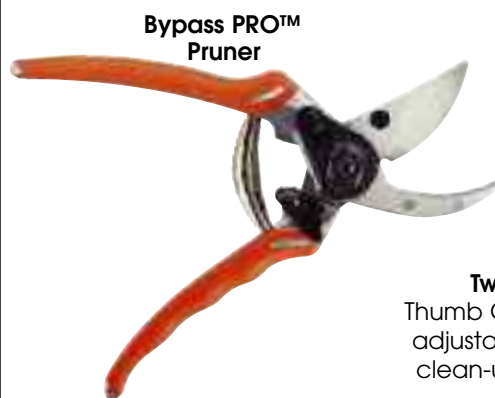
400 Water Breaker® Nozzle



ColorMark™ RainWand™



www.dramm.com



Bypass PRO™ Pruner



Twist™
Thumb Controlled
adjustable spray
clean-up nozzle

ORDER: 920.684.0227

DRAMMwater

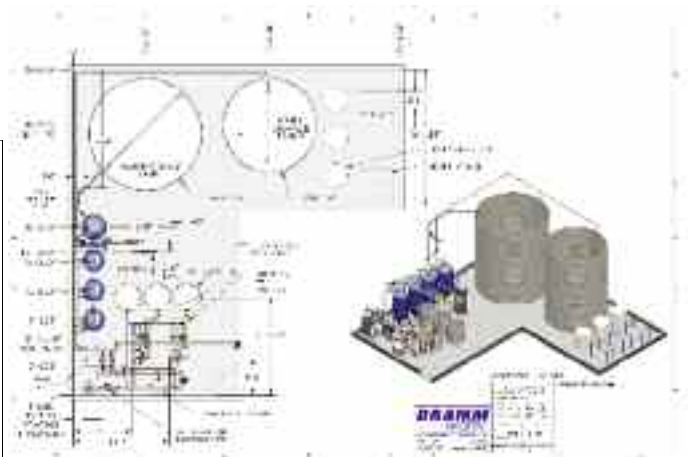
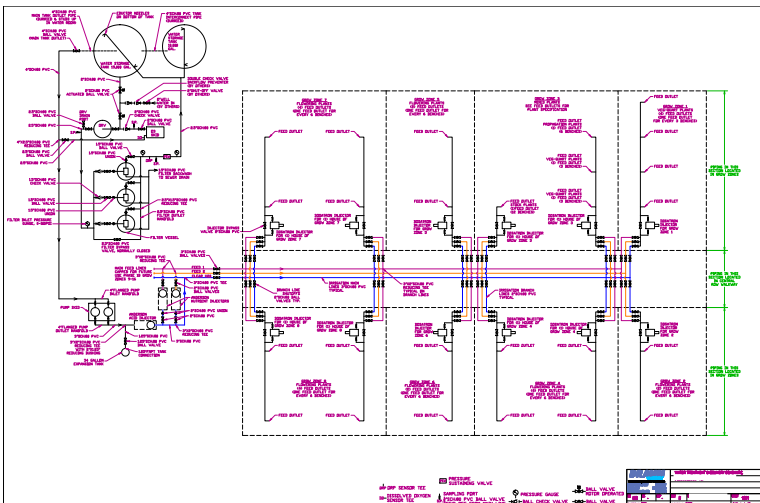
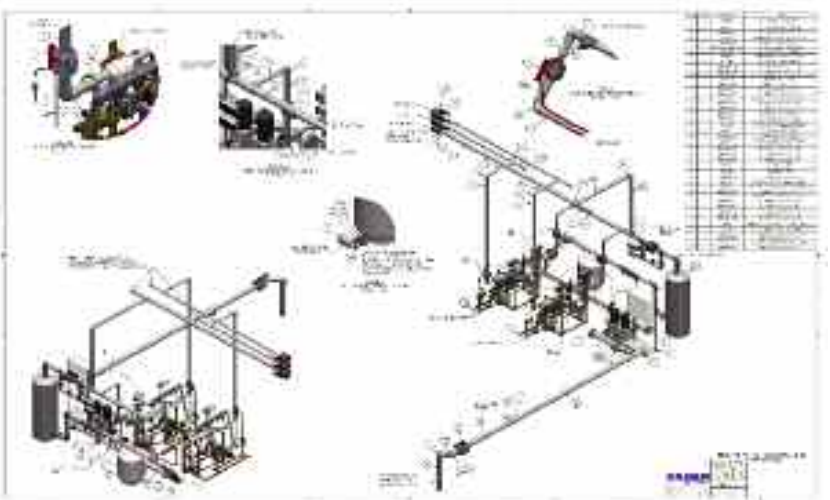
Healthy water and efficient water management are paramount to plant growth and profitability. Improving the health of your water, and delivery to the plants at the correct pressure and flow, will improve the health of your plants. DRAMMwater was established to not only clean your water to improve plant health but to make design the systems that deliver it to the plants to be more accurate and efficient. Clean water in a well designed system protects your plants and equipment. Healthy water can increase production and reduce shrink.

DRAMMwater™ provides complete solutions including pond aeration, all types of filtration, ozone disinfection and oxygenation, bio-remediation, water storage, water pumping and recirculating systems. By combining our more than 75 years of experience with technology from a number of vendor-partners, DRAMMwater is able to improve the health of any water whether from a well, surface source, leachate return, or municipal supply.

Talk with our water treatment specialists to develop a comprehensive plan for your facility.



Dramm designs complete water management and treatment solutions; from the water's source to delivery to the plants. We also design systems to clean Irrigation drain water and other runoff for irrigation reuse/recycling or to meet regulatory limits when discharging to waste.



Scan for DRAMMwater videos, more detail, product forum and more.



Irrigation Systems

Let Dramm Design Your System – Online Form Available

Irrigation systems are more than the nozzle or dripper. For the system to work properly, many additional components are needed. Dramm can design and ship your next irrigation system complete, including all of the necessary connections, filters, fittings and controls. Having us design your system saves time and trips to the plumbing supply.

Make sure your system works as it should, is protected against clogs, and is ready for maintenance. Dramm has the expertise needed to make your system work properly.

Contact Dramm or your Distributor Representative to request a quote. Or, fill in our online form by scanning the QR code.



Scan for Online
Quote Form



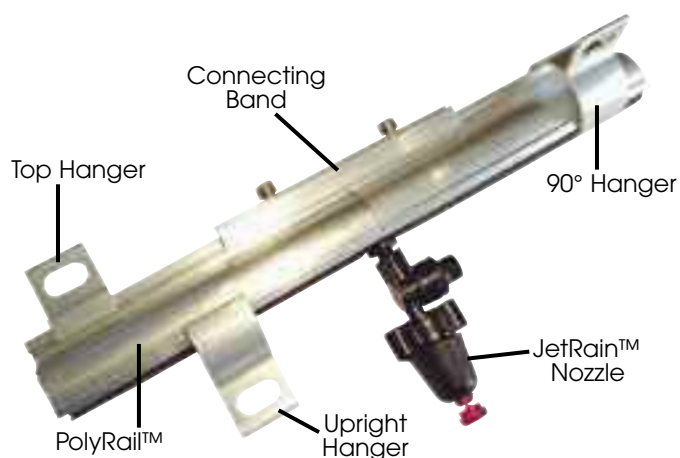
Irrigation Systems

Let Dramm Design Your System – Online Form Available

Dramm has been the leader in watering your plants since 1941. Traditionally, Dramm has offered irrigation system components to water your plants. Now Dramm not only offers the individual components but the expertise to ensure it is designed correctly, and the fittings, pipe, and components necessary to do the job right.

Building on years of experience, Dramm has perfected several distribution systems that complete the system. Each Dramm distribution system combines unique features with specific fittings and components and knowledge of irrigation best management practice to create the perfect system.

Let Dramm help you design the perfect irrigation system.



DRAMM POLYRAIL™

A key component of our unique distribution system is the Dramm PolyRail™. PolyRail is a lightweight aluminum extrusion used for supporting irrigation polyethylene tubing. Dramm PolyRail is incredibly strong due to the patented I-Beam construction. The I-Beam "Rail" adds strength as well as a point for connecting the PolyRail to one of the many hanging or connection pieces available with the system.

Dramm PolyRail™ is easy to install. Unlike "C" channel aluminum extrusions where the PE tubing must be pulled through the extrusion, installing PE tubing is a snap. Simply push the PE tubing into the opening and it securely snaps into place.

Dramm PolyRail can be hung easily providing a rigid, perfectly straight line for your nozzles. With no twisting or sagging, your nozzles and your irrigation pattern remain level and even. PolyRail perfects your irrigation system.

Use the PolyRail with our barbed JetFog™ or JetRain™ nozzles and even or barbed PCAS drippers for the perfect system.



DRAMM POLYRAIL™ BENCH RISER



Dramm PolyRail™ Bench Risers combine the ease of installation of our PolyRail and our JetRain™ or JetFog™ nozzles to mist or irrigate rolling benches. A typical problem with misting rolling benches is that nozzles are fixed to the structure. As the benches roll, the plants move in relation to the mist system, causing poor coverage. With our PolyRail Bench Risers, the mist system is fixed to the bench, ensuring that the proper coverage is matched to the plants, even when the bench moves. Available in different heights.

- Fixes Nozzles to Rolling Benches
- Easy to Install
- Available in Different Heights
- Sold as Complete Kit

Irrigation Systems

Item #: ALU25 – 25 mm

Item #: ALU16 – 16 mm

PE Tube Diameter: High density 16mm

PE Tube Diameter: High density 25mm

standard length: 12 ft

Item #: Item #: ALU502H Top Rail

Item #: ALU500PH 90° Hanger

Item #: ALU 50135

Length: 14" Band

Item #: ALU 501CB

Length: 4" Band

Item #: ALU 541S

Item #: ALUSC cap

Item #: ALUS base

Item #: _ _ CUTTUBE specify 24, 36, or 48"

Item #: ALU503A 25mm

Item #: ALU509A 16mm

POLYRAIL™

- Patented Aluminum Extrusion Supports PE Tubing
- Easy to Install
- Keeps PE Lines Cool
- Eliminates Sagging of PE Lines
- Can be Hung a Variety of Ways
- Specialized Punch Tool Centers Holes Perfectly



HANGERS

- Easy Connection for Hanging PolyRail
- Top Rail Used to Hang Rail with Opening Downward
- 90° Positions Opening at Side
- Upright Hanger



CONNECTING BANDS

- Connects PolyRail Together
- Use When Extra Support is Required or to Cover Open Spaces in PE Tubing
- Set Screws Provide Secure Connection
- Slides on Rail



STOP

- Use at End of Line
- Prevents Hangers from Slipping Off Rail



POLYRAIL BENCH RISER- cap/base/tube

- Fixes Irrigation System to Bench
- Perfect for Rolling Benches
- Different Heights Available



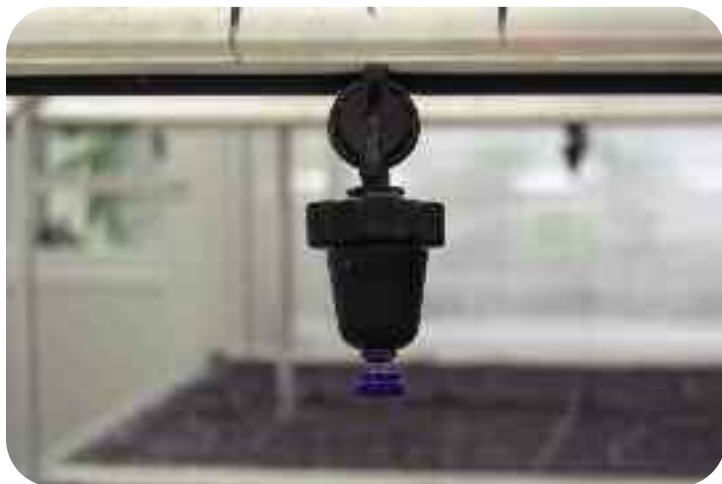
POLYRAIL PUNCH

- Hand Held Tool Available in 16mm or 25mm Size
- Powder Coated and Highly Visible
- Shaped to Fit Profile of Each PolyRail Size
- Accurate Middle Hole Punch Every Time
- Self-Cleaning 3mm Punch Tip Included
- Punch Tips Available & Sold Separately (ALU505)



Irrigation Systems

Let Dramm Design Your System – Online Form Available



DRAMM JetRain™ NOZZLE

Dramm JetRain nozzles offer a variety of options for misting and irrigating your plants. These pin-style nozzles offer unmatched evenness of coverage. With multiple configurations, the JetRain™ nozzles can work with low or high pressure systems, be rigidly mounted in PVC or galvanized pipe or barb fitted into flexible PE tubing. Combine the JetRain nozzles with Dramm PolyRail™ for an easy install system that remains rigid.



There are four JetRain nozzles to choose from: White, Blue, Red and Yellow. Each has a different flow rate and width of pattern.

- Unmatched, Even Coverage
- Easy to Install
- Variety of Patterns
- Variety of Installation Options



Scan for JetRain videos,
more detail, product
forum and more.



Use the White and Blue JetRain nozzles for even misting. Both the White and Blue JetRain nozzles have the same flow rate. However, they have a slightly different rise in the spray pattern. The result is less collision at the mid-point between nozzles when these nozzles are alternated in an installation.

Use the Red and Yellow JetRain nozzles for heavier irrigation. With larger coverage areas and spacing, the Red and Yellow JetRain nozzles are perfect for watering flats, pots, and even large containers.

 *operational video available online*

ORDER: 920.684.0227

Irrigation Systems

Item #: JRLPC-B-__ (specify color)

specs: Barbed JetRain

Item #: JRLPC-T-__ (specify color)

specs: Threaded JetRain

see below chart for output rate

individual components available—
consult commercial price list

Item #: JRLPC180-B-__ (specify color)

specs: Barbed 180 JetRain

Item #: JRLPC180-T-__ (specify color)

specs: Threaded 180 JetRain

individual components available—
consult commercial price list

Item #: JRBV-750

Item #: HNA- -__ (color)

variable lengths available

see below chart for output rate

Item#: ALBR-15-JR-(specify color)

Item#: ALBR-20-JR-(specify color)

see below chart for output rate

JetRain™ NOZZLE

- Four Different Patterns and Flow Rates (see below)
- Nozzles for Propagation or Overhead Irrigation
- Operates Between 15 – 50 psi
- Press Fit Check Valve
- Pressure Compensated
- Barbed or 3/8"WW Threaded Connection
- Use Alone or Combine with Risers or Hangers



180° JetRain™ NOZZLE

- Five Different Flow Rates— specify color
- Propagation & Overhead Irrigation
- Operates Between 15 – 50 psi



PRESSFIT MICROVALVE

- Press Fit Connection
- Shut Off Individual JetRain Nozzles



HANGING NOZZLE ASSEMBLY

- Hangs Below Baskets
- Perfect for Overhead Irrigation or Propagation
- Uses JetRain Nozzles
- Variable Lengths Available— 36", 43", or 60"
- Four Different Patterns and Flow Rates



ALUMINUM BENCH RISER

- Mounts Easily on Expanded Metal Benching
- Alternating Heights (15" & 20") for Best Coverage
- Use with JetRain Nozzles
- Complete Assembly, Ready to Install
- Aluminum Construction
- **Perfect for Rolling Benches**



Nozzle Color	Application	Flow Rate at 15 – 50 psi	Spacing	Height Above Crop		Coverage
				Upright	Inverted	
Blue	Prop/Mist	.48 gpm / 1.8L/min	24" – 40"	15" – 36"	30" – 48"	7' max
White	Prop/Mist	.48 gpm / 1.8L/min	24" – 40"	15" – 36"	30" – 48"	7' max
Red	Fine Water	.79 gpm / 3.0L/min	48" – 72"	n/a	48" – 96"	11' max
Yellow	Watering	1.37 gpm / 5.2L/min	48" – 72"	n/a	48" – 96"	18' max

Irrigation Systems

Let Dramm Design Your System – Online Form Available

DRAMM JETFOG™ NOZZLE



Dramm JetFog™ nozzles produce a fine fog (80μ) at pressures between 50 – 60 psi. This fog can be used for evaporative cooling as well as humidity or even propagation mist.

Like the JetRain™ nozzles, Dramm JetFog nozzles are either barbed or threaded allowing for a variety of installation options. When used with Dramm PolyRail™, JetFog nozzles make an easy to install mist system for cooling or humidity. Combine this system with the Dramm MistTime™ for the perfect cooling or misting system.

JetFog nozzles are available in either a single outlet, 2-way Tee outlet, or a 4/5 way outlet. The single nozzles are perfect for cooling or humidity systems, while the multiple outlet nozzles are better for propagation.

When used for propagation, the JetFog nozzles add humidity to the air without too much moisture accumulating on the plants.



- Fine 80μ Fog
- Perfect for Cooling or Humidity
- Easy to Install
- Variety of Installation Options



Scan for JetFog videos, more detail, product forum and more.

Irrigation Systems

Item#: JFS-T Threaded

Item#: JFS-B Barbed

Flow Rate: 5.8 lph

Spacing: variable to conditions & use

Operating Pressure: 50 - 60 psi

JETFOG™ NOZZLE

- Low Pressure Fog Nozzle
- Great for Cooling and Humidification
- 80µ Particle Size for Fine Fog
- Operates Between 50 and 60 psi
- Barbed or 3/8"WW Threaded Connection
- Built-in Check Valve
- Pressure Compensated
- Silicone Diaphragm



Item #: JFS-B2 (Barbed)

Item #: JFS-T2 (Threaded)

Flow Rate: 11.6 lph

Item #: JFS-T4 (Threaded)

Item #: JFS-B4 (Barbed)

Flow Rate: 23.2 lph

Item #: JFS-T5 (Threaded)

Item #: JFS-B5 (Barbed)

Flow Rate: 29 lph

Operating Pressure: 50 - 60 psi

JETFOG™ 2-WAY, 4-WAY or 5-Way

- Use for Propagation or Cooling
- Available Barbed or 3/8" ww Threaded Connection
- 2, 4, or 5 Outlets Available (specify)
- Silicone Diaphragm



Item #: JF-WRENCH

JETFOG™ WRENCH

- Wrench to disassemble nozzle for cleaning & repair.



JETFOG™ for Propagation



Irrigation Systems

Let Damm Design Your System – Online Form Available



DRAMM PRESSURE COMPENSATED DRIP SYSTEM

Damm PCAS Drippers evenly water your plants. Drip irrigation eliminates moisture on the leaves reducing disease pressure. Our PCAS drippers are perfect for any hanging basket or pot irrigation system. Damm Pressure Compensated Drippers are available as a single basket dripper or as a multi-outlet dripper for pot watering.



Our single basket drippers utilize our patented zinc-aluminum weight to keep the dripper in the pot. This unique weight won't catch on your plant or basket hanger at harvest.

Using chemical resistant silicone to regulate the flow, our PCAS drippers will last for years without damage from injected acid and fertilizers in your water. Additionally, our silicone diaphragm allows for a greater range of pressure compensation. Damm PCAS drippers operate between 15 and 60 psi often eliminating the need for pressure regulators.



- Every Plant Gets the Same Amount of Water
- Slim Weight Won't Catch on Baskets, Easy- to-Harvest
- Silicone Diaphragm Lasts Longer than Rubber
- Greater Range of Pressure Compensation 15-60 psi



Scan for drip irrigation videos, more detail, product forum and more.

 *operational video available online*

Irrigation Systems

Item#: PCAS2L- 2lph (0.5 gph)

Insert Color: Black

Item#: PCAS4LB- 4lph (1 gph)

Insert Color: Green

Operating Pressure: 15 - 60 psi

Item #: PCAS 4L- 4 lph (1 gph)

Insert Color: Green

Item #: PCAS 8L- 8 lph (2 gph)

Insert Color: Red

Item #: PCAS 12L- 12 lph (3 gph)

Insert Color: Black

Item #: PCAS-W

Item #: LST-45

Item #: LST4-45

Item #: ST-45 Barb Stake

Item #: MAN1 1 outlet adpt

Item #: MAN2 2 outlets

Item #: MAN4 4 outlets

Item #: MVMT-25

PCAS EMITTER BARBED

- Pressure Compensated Emitter
- Silicone Diaphragm for Longer Life
- Double Cone Lock Barb for Secure Fit
- Three Entry Points into Labyrinth Prevent Clogs
- Use with PCAS Weight (individual) or Stake
- Two Different Flow Rates Available
- Larger Body & Larger Labyrinth for Less Clogging

PCAS EMITTER BARREL

- Pressure Compensated
- Three Different Flow Rates Available
- Silicone Diaphragm for Longer Life
- Double Cone Lock Barb for Secure Fit
- Three Entry Points into Labyrinth Prevent Clogs
- Use with 2 & 4-Way Manifolds & Labyrinth Stakes for Multi-Outlet Use

PCAS LOW FLOW WEIGHT- PCAS-W

- Barbed Connection for Secure Fit
- Slim Design for Easy Placement and Harvesting
- Zinc/Aluminum Alloy - No Lead
- Dual Port for Even Output
- Compatible with Other Systems
- Patented Design

STAKES

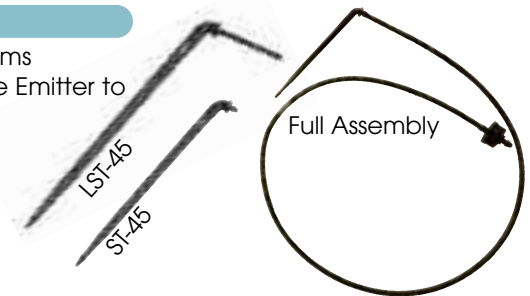
- Labyrinth Stake for Multi Outlet Systems
- Available Without Labyrinth for Single Emitter to Container
- 45° Angle Connection
- Barbed Connection for Secure Fit
- Anchor Stake Holds Rings in Place

MULTI-OUTLET MANIFOLDS

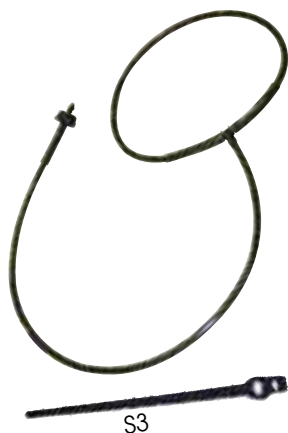
- 1, 2 or 4 Way Output
- Fits PCAS with Barrel Style Outlet
- Low Profile Prevents Breakage
- Durable Construction and Design

DRIPPER

- Barbed Connection
- Turn Off Individual Drippers



Irrigation Systems



PRESSURE COMPENSATED DRIBBLE RINGS

- Pressure Compensated for Superior Accuracy
- 2 gph Flow Rate (8lph)
- Waters Nursery Stock Evenly
- Ring Secures Around Trunk, Water Flows From Multiple Holes
- Variety of Sizes and Leader Tube Lengths
- S3 Anchor Stake available to hold Rings in place

Item #: PCR

Ring Diameter: 4", 6", 8.5", 10", 13"

Tube Length: 12", 24", 36", 48"

Item #: S3 Anchor Stake



PROFESSIONAL SOLENOID VALVES

- Fast Acting Valve- Great for Misting Systems
- Extremely High Flow Rate with Low Head Loss
- Operates at Very Low Flow Rates
- Available with or without Flow Control
- Manual Override for Easy Operation
- Available in 3/4" and 1" Models
- Heat Tolerant to 80°C (176°F)



Item #: SVB075-M - 3/4" w/flow control

Item #: SVB100 - 1" no flow control

Item #: SVB100-M - 1" w/flow control

Item #: SVB150-M - 1.5" w/flow control

Item #: SVB200-M - 2" w/flow control

Power Requirements: 24v AC 1.7 watts

Operating Pressure: 10 - 150 psi

PRESSURE REGULATOR

- 3/4" Pressure Adjustment Range 7 - 85 PSI
- Pressure Indicating Springs YEL 7-20 PSI, WHT 12-35 PSI, RD 28 -60PSI, BLK 50-85PSI
- Max Inlet Pressure 125 PSI
- 1" Pressure Adjustment Range 7 - 80 PSI
- Pressure Indicating Springs WHT 7-18 PSI, RD 14-28 PSI, BLK 20-50 PSI, NAT 40-80 PSI
- Max Inlet Pressure 125 PSI
- 1.5" Pressure Adjustment Range 7 - 80 PSI
- Pressure Indicating Springs WHT 7-18 PSI, RD 14-28 PSI, BLK 20-50 PSI, NAT 40-80 PSI
- Max Inlet Pressure 125 PSI

Item #: PRV-075-P 3/4" Direct Acting

Item #: PRV-075-P05 3/4" Dir. Act

Spec: Direct Acting Regulator, Low Flow

Item #: PRV-100 1" Direct Acting

Item #: PRV-100-M

Spec: Direct Act. Reg. & Shut-Off Valve

Item #: PRV-150R 1.5" Direct Acting Reg.

PRESSURE REGULATOR VALVE

- Accurately Maintains Constant Pre-Set Downstream Pressure Regardless of Changing Upstream Pressure or Flow
- Adjustable Ranges 7 - 85 PSI
- Manual Override

Item #: SVB150-NP55M

Specs: 1.5" Pres. Reduce w/Flow Control

Item #: SVB200-NP55M

Specs: 2" Pres. Reduce w/Flow Control

Irrigation Systems

PIN-PERFECT NOZZLE FLOW RATE IN GPM

PART #	CAP COLOR	ORIFICE DIAMETER	15 PSI	22 PSI	29 PSI	36 PSI
PPN-BR	Brown	2.55 mm	0.61	0.74	0.85	0.95
PPN-GN	Green	2.65 mm	0.69	0.82	0.95	1.08
PPN-GR	Grey	2.75 mm	0.77	0.90	1.03	1.17
PPN-BL	Blue	2.80 mm	0.79	0.95	1.11	1.27
PPN-RD	Red	2.95 mm	0.87	1.03	1.21	1.40
PPN-OR	Orange	3.05 mm	0.90	1.11	1.29	1.48
PPN-BK	Black	3.25 mm	0.98	1.21	1.40	1.60

NIFTY NOZZLE FLOW RATE IN GPM

PART #	COLOR	ORIFICE DIAMETER	15 PSI	22 PSI	29 PSI	36 PSI
360NN-BR	Brown	1.75 mm	0.29	0.35	0.41	0.46
360NN-GN	Green	2.00 mm	0.40	0.49	0.57	0.63
360NN-GR	Grey	2.25 mm	0.51	0.62	0.72	0.80
360NN-BL	Blue	2.50 mm	0.63	0.77	0.89	0.99
360NN-RD	Red	2.75 mm	0.76	0.93	1.07	1.20
360NN-OR	Orange	3.00 mm	0.90	1.10	1.28	1.48

MIST NOZZLE FLOW RATE IN GPM

PART #	COLOR	ORIFICE DIAMETER	36 PSI	73 PSI
MM-BW	Blue/White	1.00mm	0.17	0.22
MM-RW	Red/White	1.25mm	0.27	0.35
MM-KW	Black/White	1.50mm	0.39	0.50

HIGH PRESSURE MISTY MIST FLOW RATE GPM

PART #	COLOR	ORIFICE DIAMETER	73 PSI	145 PSI	290 PSI	435 PSI
HP-GW	Grey/White	0.75 mm	0.12	0.19	0.24	0.27

T-DROP NOZZLE FLOW RATE IN GPM

PART #	COLOR	ORIFICE DIAMETER	15 PSI	22 PSI	29 PSI	36 PSI
TDN	Brown/Red	1.75 mm	0.29	0.35	0.41	0.46

PIN-PERFECT NOZZLE

- Overhead Watering Nozzle
- Designed for Foliage, Bedding Plants, & 4-6" pots
- Easy "ON-OFF" Push Pin
- 10' Diameter Spray Pattern
- 3' Spacing
- Topside of Pipeline, or Riser Installation
- Use with Damm Run-Out Valves, No-Drip Risers, & No-Drip Extension Check Valves



360° NIFTY NOZZLE

- Overhead or On-Bench Watering Nozzle
- Designed for Foliage, Bedding Plants, & 4-6" pots
- 10' Diameter Spray Pattern
- 3' Spacing
- Top or Bottom of Pipeline, or Riser Installation
- Use with Damm Run-Out Valves, No-Drip Risers, & No-Drip Extension Check Valves



360° MISTY MIST NOZZLE

- Overhead Mist Propagation, Irrigate Plugs, Raise Humidity
- Low to Medium Flow Rate
- 6' Diameter Spray Pattern
- 3' Spacing
- Top or Bottom of Pipeline, or Riser Installation
- Use with Damm Run-Out Valves, No-Drip Risers, & No-Drip Extension Check Valves



T-DROP NOZZLE

- Long Narrow Installations
- 10' X 5" Elliptical Spray Pattern
- Top or Bottom of Pipeline, or Riser Installation
- Use with Damm Run-Out Valves, No-Drip Risers, & No-Drip Extension Check Valves



ASSEMBLY INSERT

- Threaded Gasket for Quick, Easy Installation
- Leak-Free Seal on Damm Irrigation Nozzles
- Drill 7/16" Hole & Insert
- Interior Female 3/8" Whitworth Thread
- Use at Pressures Up To 50 PSI



* For a complete list of Irrigation Nozzles, see the current Damm Commercial/Greenhouse price list *

Irrigation Systems

Let Dramm Design Your System



FITTINGS

Dramm offers all the components necessary to plumb an irrigation system. Components include easyloc fittings, barbed fittings, elbows, tees, in-line valves, threaded adapters and end closures.

• *see price list for complete selection*



DRAMM QUICK PUNCH

- Centers Hole Without Flattening PE Tubing
- Easy, One Hand Operation
- 3mm Blade Fits All Barbed Dramm Products
- Available in Different Sizes

Item #: PUNCH1650

Tubing Size: 16mm & 1/2" PE tubing

Item #: PUNCH75100

Tubing Size: 3/4" & 1" PE tubing



FILTERS

- Protects Irrigation Systems From Clogging
- Screen and Disc Filters Available
- 150 Mesh Standard, 200 and 300 Mesh Available
- Variety of Pipe Sizes

For sizes and flow rates see our price list or individual product card



PRESSURE REGULATOR

- Reduce Pressure to Compensated Systems
- 40 psi Standard
- Other Pressures Available from 10 - 40 psi
- Variety of Pipe Sizes

Item#: PR075M40 - 3/4" pipe thread

Operating Pressure: 40 PSI

Item#: PR100M40 - 1" pipe thread

Operating Pressure: 40 PSI

Item#: PR125X1H40 - 1.25" pipe thread

Operating Pressure: 40 PSI (high flow)



KWIK KLAMP

- Easy Installation & Removal of Pipelines
- Hinged Clip Locks Shut when Closed on Larger Sizes
- Opens to Remove or Replace Pipelines
- Chemical Resistant Polypropylene
- Use with Kwik Spacer (B) to Stack or Raise Clamp
- Multiple Sizes Available: 1/2" - 4"

B

Irrigation Systems



NO-DRIP RISER

- Controls Drip From Overhead Pipelines
- Elevates Nozzle 2.25" Above PVC Pipeline
- Elevates Nozzles Above Soil for Landscape Use

NO-DRIP EXTENSION CHECK VALVE

- Controls Drip From Overhead Pipelines
- Shuts Off Water Under 11 PSI - Opens at 11 PSI
- Use When Installing Nozzles in Bottom Side of Pipeline
- Built-In Filter



RUN-OUT VALVE

- Controls Drip From Overhead Pipelines
- Installs at End of 1" or 3/4" PVC Pipelines
- Allows Line to Drain When Water is Off
- Requires at Least 15 PSI to Work Properly

PIPE ADAPTER

- Direct PVC Pipe Installations
- Attach Nozzles Directly to 1/2" PVC Risers
- Available Threaded or Slip Fit
- Eliminates Overhead Lines
- 1/2" X 3/8" WW



DRIBBLE TUBES

- Waters 5", 6" or 7" Pots Evenly
- Water Flow From 2 Holes
- Lengths from 12" - 42" Long

DRIBBLE RINGS

- Waters Nursery Stock Evenly
- Ring Secures Around Trunk, Water Flows from Multiple Holes
- Variety of Sizes and Leader Tube Lengths

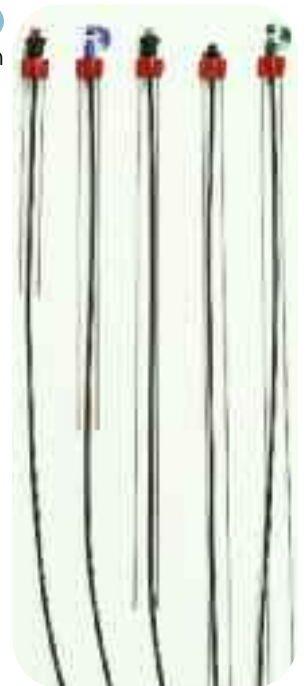


DRAMM HANDPIK™ TOOL

- Assembly Insert of Brass Eyelets in Poly Tubing for Dramm Dribble Tubes & Rings
- One Leak-Free Operation!

DRAMM STIX™

- Water or Mist from Overhead when Overhead Lines are Impossible
- Great for Moveable Benching
- Five Different Heights: 10" - 36"
- Includes Poly Tubing, Stix™, & Pin Perfect Nozzles



Irrigation Systems



MIST TIME™

- Precision 10-Valve Misting Controller
- Temperature Input
- Pump Output Option
- Easy-to-Read Display
- Easy-to-Use Controls
- English, Spanish, French or Dutch programming
- *Temperature Sensor Sold Separately*

Build a misting curve to change the cycle throughout the day

Enclosure: NEMA 4 rated PVC

Power Supply: 120v AC

Power Output: 24v AC

Overload Protection: fuse



iiri CONTROLLER

- 9 Volt Battery Operated Single Valve
- Includes Valve
- Three Modes: Single Start, Start on Select Days, Up to Three Start Times/Day
- Watertight Enclosure
- Great for Landscaping, Outdoor Crops or Temporary Irrigation Systems
- Misting Version Available

Item #: iiri

Power Source: CR123 battery

Battery Life: 1+ year



PROLINE™ CONTROLLER

- 4 Independent Programs
- 8 Start Times/Day per Program
- 4 Output Base
- Expandable to 24 Outputs
- Easy to Program
- Easy Manual Valve or Program Operation
- English and Spanish language
- Optional Smart Link Air Card Available

Item #: PL-__ _

Power Source: 120v

Power Output: 24v



Scan for irrigation control videos, more detail, product forum and more.

Natural Fertilizer

Dramm Corporation offers a biologically active fish fertilizer. Drammatic® Fish Fertilizer feeds plants with macro and micro nutrients, as well as the beneficial micro-organisms. We offer our fertilizer in several blends to meet the exact needs of the grower. For organic or conventional crops.



DRAMMATIC® "O" • OMRI Listed

- Organic or Conventional Crops
- Naturally Complete Plant Food
- Liquid Fish
- 1 gal, 5 gal. • Analysis 2-5-1
- 55 gal, 275 gal Totes or Bulk • Analysis 2-5-0.2



2.5 gallon Twin-pack

DRAMMATIC® "K" • OMRI Listed

- Organic or Conventional Crops
- Naturally Complete Plant Food
- Liquid Fish & Kelp
- 1 gal, 5 gal. • Analysis 2-5-1
- 55 gal, 275 gal Totes or Bulk • Analysis 2-5-0.2



55 gallon Drum

DRAMMATIC® "ONE" • OMRI Listed

- Organic or Conventional Crops
- Naturally Complete Plant Food
- Blend of Liquid Fish, Kelp, & Fulvic Acid
- Chilean Nitrate (Sodium Nitrate) 15-0-2
- 1 gal, 5 gal. • Analysis 4-4-1
- 55 gal, 275 gal Totes or Bulk • Analysis 4-4-0.5



275 gallon Tote



Fresh Fish & Fish Scraps



Fresh Fish Ground Daily



200 Mesh Fine Filtered



Unique Natural Enzymatic Liquifying Technique



100% Pure Liquid Fish Protein Hydrolysate



Bulk Tanker

for complete information,
request product literature:
920.684.0227
or visit our website:
www.fishfertilizer.com

Environmental Control

Dramm offers specialized products for influencing the greenhouse environment. Each product in this category represents the next generation of technology. Dramm Mechanical Thermostats are designed for the rough greenhouse environment. Utilizing stainless steel coils and corrosion free housing, these thermostats offer unmatched accuracy and durability. The Dramm AME Horizontal Air Flow System is the next step in greenhouse air movement. Utilizing fewer, more aerodynamic fans, the AME System creates better, less turbulent air movement with less energy.



AME HAF FAN

- Highly Efficient, Aerodynamic Fans
- Reduced Number of Fans Needed
- Reduce Energy Costs
- Speed Regulation
- Anti-Corrosion Design
- Low Maintenance

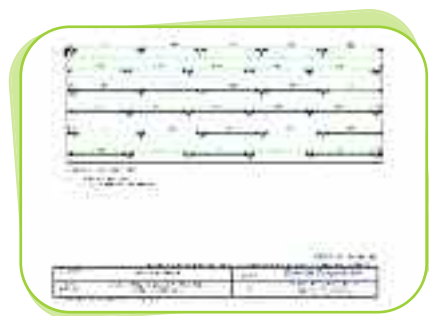
Power Supply: 208/240V

Frequency: 60 Hz

Overload Protection: thermal contact



• contact Dramm for a custom layout for your greenhouse •



VARIABLE SPEED CONTROLLER

- Precise Control of Variable Speed Fans, Electrical Heating, Bulb or Tube Lights, Cooling Systems & Other Electrical
- Regulates Voltage to Device
- Plastic Housing Protects from Environment
- Manual or Interface w/Other Control Systems
- 4 Different Sizes Available

Enclosure: plastic PVC IP54

Power Supply: 208/240V, 1ø

Frequency: 60 Hz

Power Tolerance: +/- 10%

Protection Fuses: primary/secondary

Maximum Voltage: adj. from 230-150 Volt

Minimum Voltage: adj. from 0-230 Volt

Input Signal: 4-20 AMP or 2-10 Volt DC

Alarm Output: relay SPDT no load



THERMOSTATS

- Precisely Controls Heating, Cooling, & Ventilation
- Unmatched Accuracy
- Construction Eliminates Corrosion
- Single or Two-Stage Available
- Designed for Harsh Greenhouse Environments

Enclosure: plastic PVC IP54

Power Supply: 12V - 240V

Temp. Accuracy: approximately 1° C

Temp. Range: 30-104° F (0-40°C)

Contacts: 1 or 2 no load SPDT

Inductive Load: 8 Amp

Non-inductive Load: 16 Amp

Sensor: 1 or 2 Stainless Steel Coils



Scan for AME videos,
more detail, product
forum and more.

 operational video available online

Humidity Management

Dramm offers systems for humidification and dehumidification to optimize the climate for growth.

Humidity effects plant growth through transpiration and plant health by affecting disease and insect pressure.

Dramm offers low pressure fog systems, high pressure fog systems and dehumidification systems. Often, these systems can be combined in the same facility to ensure that the right humidity targets can be achieved.

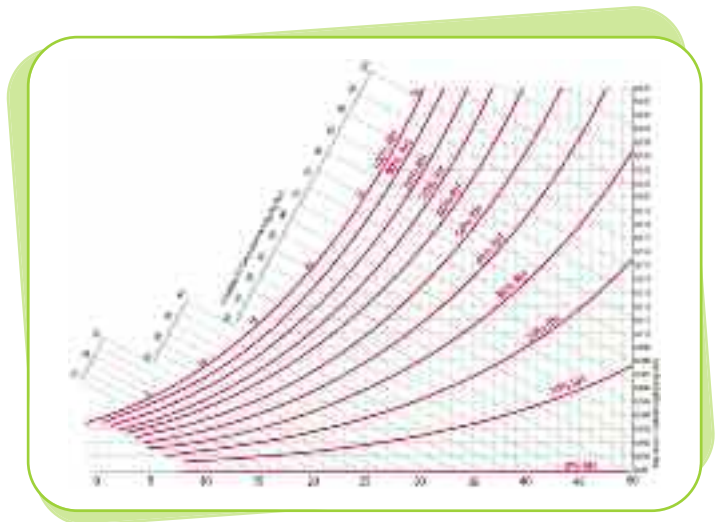
Dramm's expertise in plant health and climate can help you determine which tools will work best for your situation. Contact our team or visit our website to learn about our different systems. Click on the QR Code to request a quote.



Scan for Online
Quote Form



Low Pressure Fog System



Hydraulic Sprayers

Hydraulic sprayers contain some brass components. Corrosive chemicals may damage the standard units. Dramm offers the CRF version for corrosive duty.



HYDRA™

- High Volume Hydraulic Sprayer
- 50 Gallon Tank on Mobile Cart
- Applies Most Chemical Formulations
- Variety of Droplet Sizes & Spray Distances
- 115 Volts or 220 Volts 60 HZ
- 250' 3/8" Hose Option
- **BIGFOOT™** Option Available
- CRF Version Available

Model: HYDRA

Chemical Tank Volume: 50 gallons

Chemical Output Rate: up to 3.8gpm

Maximum Pressure: up to 500 psi

Pump HP: 1.5 hp electric

System Rated Load: 18 or 9 amp

Hose Length: 150', 200' or 250'

Dimensions: 27" wide

Shipping Weight: 315 lbs



HYDRA SPRAYTRAX 50- electric or gas

- High Volume Hydraulic Sprayer
- 50 Gallon Tank on Self Tracking Cart
- Applies Most Chemical Formulations
- Variety of Droplet Sizes & Spray Distances
- 115 Volts or 220 Volts 60 HZ or
- 5.5 hp Honda Gas Engine
- CRF Version Available

Model: HYDRA-ST50 or HYDRAG-ST50

Chemical Tank Volume: 50 gallons

Maximum Pressure: up to 500 psi

Pump HP: 1.5 hp electric - 3.8 GPM
5.5 Honda® gas - 7.6 GPM

Hose Length: 150', 200' or 250'

Dimensions: 34" wide

Shipping Weight: 400 or 408 (gas) lbs



HYDRA™ SPRAYTRAX™ 100

- Hydraulic Sprayer
- 100 Gallon Tank on Self Tracking Cart
- Applies Most Chemical Formulations
- Single or Dual Hose Reel Option
- Remote wind Reel Available
- CRF Version Available

Model: HYDRA-ST100

Chemical Tank Volume: 100 gallons

Chemical Output Rate: up to 7 gpm

Maximum Pressure: up to 500 psi

Pump HP: 5.5 hp Honda® gas

Hose Length: 150', 200', 250' or 300'

Hose Option: 1 or 2 reel available

Dimensions: 38" wide



HYDRA™ 200

- High Volume Hydraulic Sprayer
- Applies most chemical formulations
- Variety of droplet sizes & spray distances
- Optional extra 20gal tank for smaller areas
- Remote wind Reel Available
- CRF Version Available

Model: HYDRA-200

Chemical Tank Volume: 200 gallons

Chemical Output Rate: up to 7 gpm

Maximum Pressure: up to 550 psi

Pump HP: 5.5 hp Honda® gas

Hose Length: 150', 200', 250' or 300'

Hose Option: 1 or 2 reel available

Dimensions: 60" w x 62" h x 77" L



Scan for Hydra videos,
more detail, product
forum and more.

Hydraulic Sprayers

Model: MSO

Chemical Tank Volume: not included

Chemical Output Rate: up to 0.5gpm

Maximum Pressure: up to 500 psi

Compressor HP: 1/4 hp electric

Drive System: direct drive

Cord Length: 8 ft

Spray Distance: stream: 20' • mist: 10'

Shipping Weight: 28 lbs

MSO SPRAYER

- Multi-Purpose Hydraulic Sprayer
- Applies Most Chemical Formulations
- Corrosion-Resistant Pump
- 120 Volts 60HZ



Model: MS20-33 or MS20-100

Chemical Tank Volume: 20 gallon

Chemical Output Rate: up to 0.5gpm

Maximum Pressure: up to 500 psi

Compressor HP: 1/4 hp electric

Drive System: direct drive

Hose Length: 33 ft or 100 ft (MS20-100)

Dimensions: 20.5" wide x 36.5" L

Shipping Weight: 97 lbs

MS20 SPRAYER

- Multi-Purpose Hydraulic Sprayer
- Multi-Position Reel Placement
- Applies Most Chemical Formulations
- Corrosion-Resistant Pump
- 120 Volts 60HZ
- Includes Quick Connect
- **BIGFOOT™** Option Available



Model: MSO-GAS#2

Chemical Tank Volume: not included

Chemical Output Rate: up to 1.8gpm

Maximum Pressure: up to 350 psi

Compressor HP: 1/2 hp Honda gas

Drive System: direct drive w/clutch

Discharge Hose Length: 66'

Spray Distance: stream: 20' • mist: 10'

Shipping Weight: 30 lbs

MSO-GAS SPRAYER

- Gasoline Power Hydraulic Sprayer
- Applies Most Chemical Formulations
- 3 Different Regulator Settings
- Corrosion-Resistant Pump
- Gasoline Engine



Model: MS20GAS-66

Chemical Tank Volume: 20 gallon

Chemical Output Rate: up to 1.8gpm

Maximum Pressure: up to 350 psi

Compressor HP: 1/2 hp gas

Drive System: direct drive w/clutch

Discharge Hose Length: 66'

Dimensions: 20.5" wide

Shipping Weight: 97 lbs

MS20-GAS SPRAYER

- Gasoline Power Hydraulic Sprayer
- 20 Gallon Tank on Mobile Cart
- Applies Most Chemical Formulations
- 3 Different Regulator Settings
- Corrosion-Resistant Pump
- 4-Cycle Honda Gasoline Engine
- **BIGFOOT™** Option Available



operational video available online

www.dramm.com

ORDER: 920.684.0227

Foam Equipment

Foam improves contact time for disinfection. Dramm's Foamers utilize compressed air to create a dryer, more persistent foam. Foam sticks to both horizontal and vertical surfaces, filling cracks and crevasses, ensuring good sanitation. For use with products designed to foam or with foaming additives.



FOAM8L

- 8 Liter Compression Foamer
- Pressurizes to 60 PSI
- Produces and Aerated Foam



Model: FOAM8L

Chemical Tank Volume: 8 Liters



FM20 FOAMER

- Air Driven Foamer
- Produces a Thick Foam
- Works with Many Disinfectants
- Foaming Agent may be Required



Model: FM20-25

Chemical Tank Volume: 20 gal

Requires: 5CFM @ 60PSI compressed air

Hose Length: 25' Hose (longer available)



FM50 FOAMER

- Air Driven Foamer
- Produces a Thick Foam
- Works with Many Disinfectants
- Foaming Agent may be Required



Model: FM50- _ _

Chemical Tank Volume: 50 gal

Requires: 5CFM @ 60PSI compressed air

Hose Length: 25' Hose (longer available)



FMST50 FOAMER

- Air Driven Foamer
- Produces a Thick Foam
- Works with Many Disinfectants
- Foaming Agent may be Required
- 50 Gallon Tank on Self Tracking Cart



Model: FMST50- _ _

Chemical Tank Volume: 50 gal

Requires: 5CFM @ 60PSI compressed air

Hose Length: 25' Hose (longer available)

• Longer hoses (up to 75') can be used with higher CFM compressors (7 CFM) •



Scan for Foamer
videos, more detail,
product forum and
more.

Chemical Application

Model: TEF Turbair Electrafan

Chemical Tank Volume: 1 liter

Chemical Output Rate: 1- 3.6 oz/min

Droplet Size: 60-80 μ

Area Covered: up to 3,000 sq ft/liter

Coverage Distance: 10 – 20 ft

Power Supply: 12 volt DC

Shipping Weight: 15 lbs

TURBAIR ELECTRAFAN

- Lightweight, Portable Sprayer
- Low Volume & Ultra Low Volume
- Applies Most Chemical Formulations
- Treat Crops, Control Pests, Administer Vaccines
- Electrically Powered; No Pumping



Model: MH-1 Herbi Standard

Chemical Tank Volume: 2.5 liter

Chemical Output Rate: 2-5 oz/min

Band Width: 4 ft precise circular

Total Spray Volume: 5-20 liters/acre

Droplet Size: 200-300 μ

Power Supply: 6V DC; 4-D cell batteries

Shipping Weight: 5 lbs

MICROFIT HERBI STANDARD

- Lightweight, Portable Band Sprayer
- Cleanup, Border & Strip Spraying
- Low Volume, CDA Application
- Applies Most Chemical Formulations
- Minimizes Spray Drift
- Battery Powered; No Pumping



Model: MHF-2 Herbi Flex

Chemical Tank Volume: 2.5 liter

Chemical Output Rate: .5-1.33 oz/min

Band Width: 4-20 inch band

Total Spray Volume: 5-20 liters/acre

Droplet Size: 200 μ

Power Supply: 6V DC; 4-D cell batteries

Shipping Weight: 5 lbs

MICROFIT HERBAFLEX

- Lightweight, Portable Band Sprayer
- Cleanup, Border & Strip Spraying
- Low Volume, CDA Application
- Applies Most Chemical Formulations
- Minimizes Spray Drift
- Battery Powered; No Pumping



Model: MHT-3 Herbi Twin

Chemical Tank Volume: 2.5 liter

Chemical Output Rate: 2 - 5 oz/min

Band Width: 5.5 - 7.5 ft pattern

Total Spray Volume: 5-20 liters/acre

Droplet Size: 200-300 μ

Power Supply: 6V DC; 4-D cell batteries

Shipping Weight: 5 lbs

MICROFIT HERBI TWIN

- Lightweight, Portable Band Sprayer
- Cleanup, Border & Strip Spraying
- Low Volume, CDA Application
- Applies Most Chemical Formulations
- Minimizes Spray Drift
- Doubles Area Covered/Pass
- Battery Powered; No Pumping



Model: ULVA+

Chemical Tank Volume: 1 liter

Chemical Output Rate: 25 - 60ml/min

Power Supply: up to 8 -D cell batteries

Droplet Size: 50-60 μ

Shipping Weight: 5 lbs

ULVA+

- Lightweight, Portable Sprayer
- Low Volume & Ultra Low Volume
- Applies Most Chemical Formulations
- Use in Areas with Natural Air Movement
- Outdoor Row Crops or Flowers



Chemical Application



K-10 PULSFOG™

- Greenhouse Poultry/Livestock
- 25 Horsepower
- Portable
- 1 Nozzle

Model Number: K-10 & K-10/O
Weight Empty: 18 lbs
Output Time: 10L/45 min
Distance Propelled NF/VK II: 45 ft
Chem Tank Capacity: 10 liters
Fuel Tank Capacity: 2 liters/0.5 gal



K-22 PULSFOG™

- Greenhouse Poultry/Livestock
- 50 Horsepower
- Portable
- 1 Nozzle

AVAILABLE as K-22 BIO Unit



Model Number: K-22 & K-22/O
Weight Empty: 18 lbs
Output Time: 10L/30 min
Distance Propelled NF/VK II: 110 ft
Chem Tank Capacity: 10 liters
Fuel Tank Capacity: 2 liters/0.5 gal



K-30 PULSFOG™

- Greenhouse Poultry/Livestock
- 101 Horsepower
- Portable
- 2 Nozzles



Model Number: K-30 & K-30/O
Weight Empty: 25 lbs
Output Time: 10L/15 min
Distance Propelled NF/VK II: 220 ft
Chem Tank Capacity: 10 liters
Fuel Tank Capacity: 2 liters/0.5 gal



K-30/20/O PULSFOG™

- Poultry/Livestock
- 101 Horsepower
- Stationary
- 2 Nozzles

Model Number: K-30/20/O K-30/20F
Weight Empty: 58 lbs
Output Time: 30L/45 min
Distance Propelled NF/VK II: 220 ft
Chem Tank Capacity: 55 liters
Fuel Tank Capacity: 20 liters/5.2 gal



K-30/20 BIO PULSFOG™ *

- Greenhouse - 101 hp
- Livestock/Poultry
- 4 Nozzles



Model Number: K-30/20/BIO
Weight Empty: 67 lbs
Output Time: 60L/45 min
Distance Propelled NF/VK II: 220 ft
Chem Tank Capacity: 2- 55 l. tanks
Fuel Tank Capacity: 20 liter tank

***PulsFOG BIO UNITS-** For use with heat sensitive chemical and biological agents. A second injection system consisting of an additional tank and set of nozzles uses plain water to cool the exhaust allowing many heat sensitive products to be fogged without damage. Additionally, the use of a second tank allows for larger areas to be treated without refilling. Please consult the manufacturer or Dramm for approved chemicals.

• **Dual Start Version Available**



All PulsFOGs are now approved for corrosive duty

Chemical Application

Model Number: K-4 Bio
Weight Empty: 99 lbs
Output Time: 30L/30 min
Distance Propelled NF/VK II: 250 ft
Chem Tank Capacity 2- 55 liter tanks
Fuel Tank Capacity: 20 liters
Contact Dramm for more information

K-40 PULSFOG™

- Greenhouse/Livestock
- 125 Horsepower
- Frame Mounted Non-Portable
- 6 Nozzles
- 12 v Electric Ignition
- Bio-Technology (see note pg 34) *



Model Number: TF400A or TF400GV
Distance Propelled: 300' from ea. nozzle
Chem Tank Capacity 400 liters
Treatment area/Tank: 2,000,000 sq.ft.
Mounting: 3-Point hitch
Tractor Requirements: 50 HP 540 RPM

TRACFOG™

- PTO Driven Fog System
- Dual Nozzles
- Independent Solenoid Valves
- 2 models: Standard Unit or Greenhouse Vegetable Unit



Model Number: K-50
Weight Empty: 99 lbs
Output Time: 55L/30 min
Distance Propelled NF/VK II: 300 ft
Chem Tank Capacity 2- 55 liter tanks
Fuel Tank Capacity: 20 liters X 2
Contact Dramm for more information

K-50 PULSFOG™

- Greenhouse/Livestock
- 175 Horsepower
- Frame Mounted Non-Portable
- 6 Nozzles
- 12 v Electric Ignition
- Bio-Technology (see note pg 34) *



Model Number: K-30/20C
Model Number: K-30/20C-BF

CARTS for K-30/20

- Cart for K-30/20 machines
- BigFoot option w/Pneumatic wheels



K-30/20C
w/mounted
pulsFOG



K-30/20C-BF

• For best results, PulsFog requires the use of carrier solutions •



Scan for PulsFOG videos,
more detail, product
forum and more.

- NutriFOG™ - Preferred for Greenhouse, works with all chemicals



operational video available online

Chemical Application



TURBO ULV™ HYBRID

- Fog or Directed Low Volume Spray
- Spray up to 5,000 sq. ft. w/5 Liter Tank
- Fog up to 25,000 sq. ft. w/5 Liter Tank
- Corrosion Resistant



Scan for Turbo ULV videos, more detail, product forum and more.

Model: TULV110

Chemical Tank Volume: 5 liters

Chemical Output Rate: Variable

Power: 120v AC



MLVH MINI AUTOFOG™

- Automatic Chemical Application
- Drastically Reduce Labor Costs
- Low Volume Spraying
- Treats up to 3,000 Sq Ft
- Treats 5,000 Sq Ft with Additional Fans
- 120 Volts 60HZ



Model: MLVH Autofog™

Chemical Tank Volume: 8 liters

Chemical Output Rate: 45cc/min

System Rated Load: 10.3 amp

Compressor HP: 3/4 hp

Compressor Output: 2.43 CFM @ 21PSI

Cord Length: 4 ft

Dimensions: 10" wide

Shipping Weight: 83 lbs



SLVH AUTOFOG™

- Automatic Chemical Application
- Low Volume Spraying
- Treats 12,000 Sq Ft
- Treats 26,000 Sq Ft with Additional Fans
- 120 Volts 60HZ
- Separates for Portable Use



Model: SLVH Autofog™

Chemical Tank Volume: 7 liters

Chemical Output Rate: 45cc/min

System Rated Load: 11.1 amp

Compressor HP: 3/4 hp

Compressor Output: 2.43 CFM @ 21PSI

Hose & Cord Length: 33 ft

Dimensions: 18.25" wide

Shipping Weight: 156 lbs



LVH AUTOFOG™

- Automatic Chemical Application
- Low Volume Spraying
- Treats 30,000 Sq Ft
- Treats 70,000 Sq Ft with Additional Fans
- 240 Volts 60HZ
- Separates for Portable Use

Model: LVH Autofog™

Chemical Tank Volume: 14 liters

Chemical Output Rate: 55cc/min

System Rated Load: 8 amp

Compressor HP: 1 hp

Compressor Output: 4.06 CFM @ 28.5PSI

Hose & Cord Length: 100 ft

Dimensions: 18.25" wide

Shipping Weight: 187 lbs



Scan for AutoFOG videos, more detail, product forum and more.

- ***Stainless Steel Nozzle available for use with oxidizers*** -

Chemical Application

Model: FC20-DT Dosatron™

Model: FC20-DM Dosmatic™

Tank Volume: 20 gallons

INJECTOR SOLD SEPARATELY

Model: FC3X7-DT Dosatron™

Tank Volume: 3 - 7 gallons

INJECTOR SOLD SEPARATELY

Model: FC50 w/D8R

Tank Volume: 50 gallons

Model: FCST100-A

Tank Volume: 100 gallons

Model: AAB12V

Model: AAB240V Euro Plug

Tank Capacity: 5 gallons

Flow Rate: 1 gpm

FERTICART™

- Make Your Injector Portable
- Fits Dosatron or Dosmatic Injectors (specify)
- 20 Gallons, 4 Wheels
- Sumped Drain with Valve
- Vinyl Coated, Corrosion Free Cart
- Includes 200 Mesh Filter, Back-Flow Check Valve & All Plumbing

FERTICART™ FC3X7

- Make Your Injector Portable
- Fits Dosatron Injector; D14 only
- Three Independent, 7-Gallon Tanks
- Individual Tank Drains with Valves
- Vinyl Coated, Corrosion Free Cart
- Includes 200 Mesh Filter, Back-Flow Check Valve & All Plumbing

FERTICART™ FC50

- 50 gallon capacity
- Works with Dosatron D14, D45 & D40 (specify model)
- Vinyl coated, corrosion-free cart
- Includes 200 mesh filter, back-flow preventer, check valve & all plumbing
- Agitation or Aeration mode
- Aerates solution for use with nematodes

FERTICART™ FCST100-A

- 100 gallon capacity
- Fits Dosatron D45 & D40 (specify model)
- Includes 200 mesh filter, back-flow preventer, check valve & all plumbing
- Self-Tracking Cart
- Agitation or Aeration mode

AGITATION/AERATION BUCKET

- Thoroughly mix any solution
- Keeps water soluble fertilizer, fungicide, insecticides & PGR's in suspension
- Perfect for use with injectors
- Agitation or Aeration mode
- Aerates solution for use with nematodes

▶ *operational video available online*

Scan for agitation/aeration videos, more detail, product forum and more.



Chemical Application



CFAR-20/150 COLDFOGGER™

- Targeted, Low Volume Chemical Application
- Drastically Reduce Labor Costs
- Low Volume Spraying
- 120 Volts 60HZ
- **BIGFOOT™** Option Available



Model: CFAR 20-150

Chemical Tank Volume: 70 liters

Chemical Output Rate: 1 liter/min

System Rated Load: 10 amp

Hose Length: 150 ft

Cord Length: 4 ft

Dimensions: 20" wide

Shipping Weight: 97 lbs



Bigfoot option



CFAR-50 COLDFOGGER™

- Targeted, Low Volume Chemical Application
- Drastically Reduce Labor Costs
- Low Volume Spraying
- 120 Volts 60HZ
- **BIGFOOT™** Option Available



Model: CFAR 50

Tank Volume: 50 gallons

Chemical Output Rate: 1 liter/min

Hose Length: 150 ft or 300 ft

Scan for Coldfogger videos,
more detail, product forum
and more.



BP-4Li BACKPACK SPRAYER

- Swapable, Lithium ion Battery
- Even, Constant Spray
- Apply All Formulations of Chemicals
- Great for Growth Regulators
- No Hand Pumping- Tank Not Pressurized
- Fine Mist to Straight Stream Output
- Padded Shoulder Straps & Back Rest
- L5-E Lance Available



Model: BP-4Li

Tank Volume: 4 gallons

Chemical Output Rate: Max. 1 gpm

Power Supply: 18v DC; rechargeable

Length of Charge: 45 minutes

Weight when Full: 40 lbs

Shipping Weight: 15 lbs

*****Charge Time:** 2 hrs

Scan for BP-4 videos,
more detail, product
forum and more.



Chemical Application

Model: MS40-TG HYDRA Trigger Gun

Feature: adj. trigger 1.25 gpm

Max. Pressure: 725 PSI

Model: MS40-TG10 1.0 mm

Model: MS40-TG12 1.2 mm

Model: MS40-TG15 1.5 mm

Model: MS40-TG20 2.0 mm

Model: MS40-TG23 2.3 mm

Model: MS40-TG30 3.0 mm

MS40-TG

- Forward momentum for greater turbulence
- Easy pattern adjustment
- Even coverage
- Turbulent spray



Model: MS-TG MSO Trigger Gun

Feature: adjustable trigger 0.5 gpm

Max. Pressure: 500 PSI

Volume: 0.5 gpm

MS-TG

- Forward momentum for greater turbulence
- Easy pattern adjustment
- Even coverage
- Turbulent spray



Model: L-5 Lance

Feature: 5-nozzle ring, adj. length

Max. Pressure: 500 PSI

L-5 LANCE

- 5 Nozzle Ring for Turbulent Spray
- Adjustable Length
- Variable Flow Rate
- Perfect for Baskets and PGR Applications
- L5-E Option for BP-4 without Valve and Handle



Model: MS40-DA

DRENCHWAND

- Quick connects to Damm Hydra™ Sprayers
- Includes High Pressure, Stainless Steel Quick Connects
- 24" Length for Easy Drenching



Model: MD-9

Model: 842441 0.8 mm

Model: 842442 1.5 mm

Model: 842443 2.0 mm

Model: 840925 2.5 mm

Model: 842444 3.0 mm

STAINLESS STEEL SPRAYGUN

- 750 PSI max Pressure
- Adjustable Pattern
- 1/2" Male Pipe Thread



Chemical Application



Bigfoot option

CD-120 CHEMDOSE™

- Apply Exact Doses Directly to Root Zone
- Apply All Formulations of Chemicals
- Variable Precision Output
- Variable Interval Between Dosing
- Dosing Cycle Counter
- 3 Wand Lengths: 16", 30" & 38" for Bench, Ground, or Hanging Baskets
- **BIGFOOT™** Option Available

Model: CD-120

Tank Volume: 20 gallons

Accuracy: +/- 1ml per cycle

Power Supply: 12v DC; rechargeable

Hose Length: 25 ft

Dimensions: 20.5" wide

Shipping Weight: 102 lbs

CD2 CHEMDOSE™

- Precisely Measures Chemical Doses
- Use as Single Shot or Interval Based Doses
- Works with an Injector or Sprayer. Any Source Less than 100 psi
- Variable Interval Between Dosing
- Advanced Features such as Dose Count, Maximum Number of Doses & Control Lock-Out

Model: CD-2 Chemdose

Accuracy: +/- 1ml per cycle

Power Supply: 12v DC, Rechargeable



Scan for Chemdose videos, more detail, product forum and more.

Water Carts

Model: WC-20/ WC-50

Tank Volume: 20 gal./ 50 gal.

Power Supply: 12v rechargeable

Hose Length: 12 feet

WATER CART

- Portable Watering System
- 4 gpm Output
- Rechargeable
- Pumps up to 300 gal Before Charging
- Constant Flow
- Non-Marking Wheels & Casters
- **BIGFOOT™** Option Available



Bigfoot option

Model: WC-50

Tank Volume: 50 gal.

Power Supply: 12v rechargeable

Hose Length: 12 feet

WATER CART

- Portable Watering System
- 4 gpm Output
- Rechargeable
- Pumps up to 300 gal Before Charging
- Constant Flow
- Non-Marking Wheels & Casters
- **BIGFOOT™** Option Available



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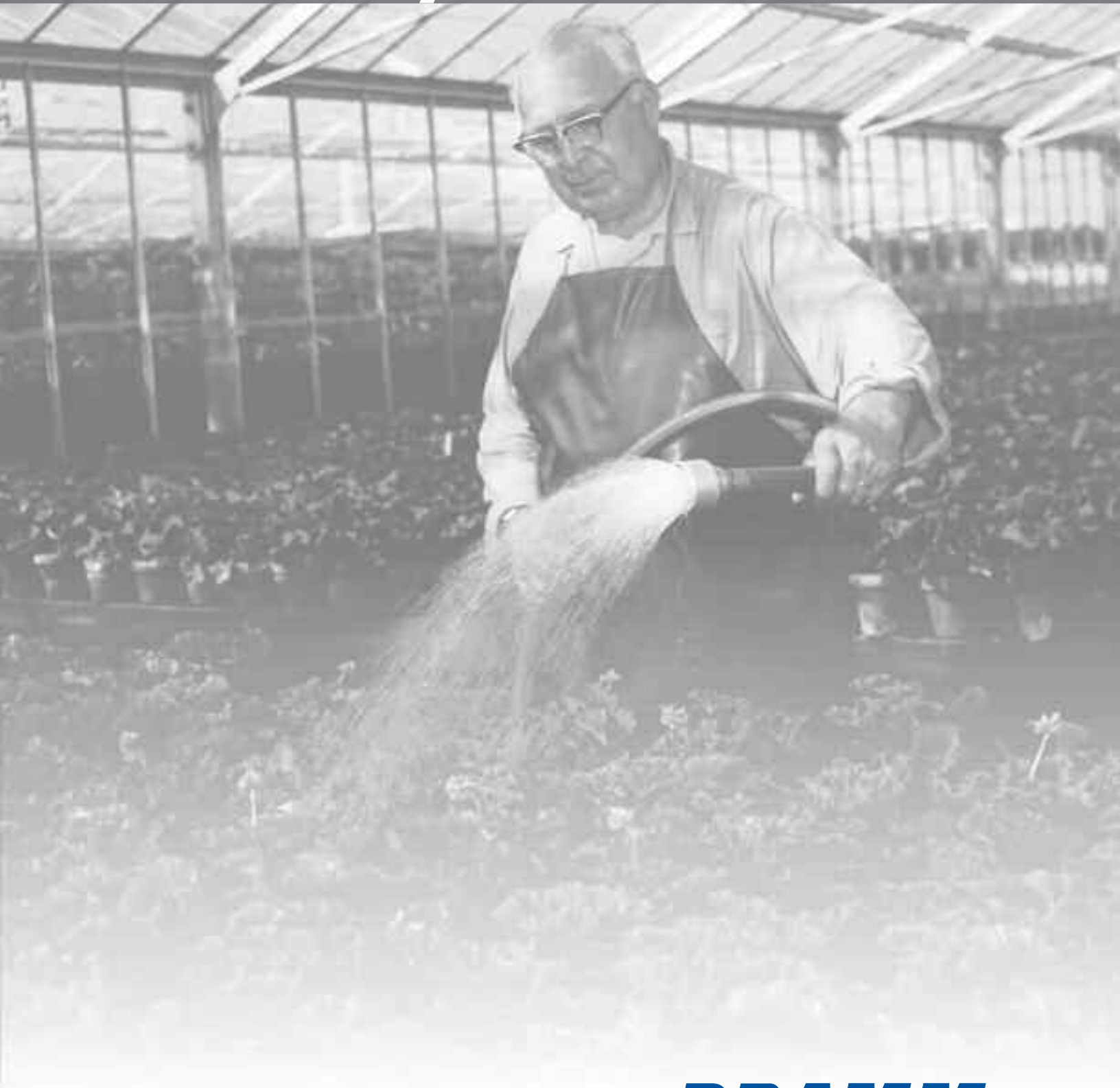
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