

DRAMM

COMMERCIAL SOLUTIONS

Dramm
Integrated Plant Health

The Dramm Corporation got its start in 1945 when growers commented to florist and inventor, John Dramm, that they had no good way to water their plants. John's solution was to develop the Aluminum 400 Waterbreaker, still the standard in hand watering tools across the world today. This spirit of innovation and commitment to a solution continues today at Dramm. With every product Dramm produces, the intent is to provide the best solution to our customers. From the beginning, Dramm 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.

The Dramm Corporation continues to innovate. From organic fertilizers to advanced chemical application systems, Dramm strives to lead the industry in providing solutions. In recent years, Dramm has introduced a newer generation of irrigation systems. From innovative misting nozzles to easy-to-use distribution and support systems, each of these products combine to form a complete irrigation solution.

One thing we recognize is how passionate growers are about hand watering. We constantly strive to offer better ways to water. However, nozzles are only one part of hand watering. Each of those nozzles must connect to a hose. In conversations with growers we often hear that the hose is the most frustrating part of watering. This year, Dramm is introducing a new, durable, rubber hose. The ColorStorm™ Professional series Rubber Hose is designed with growers in mind.

Look for Dramm 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.

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WATERING TOOLS

Item Number:	400AL
GPM:	11.1 @ 40 PSI
Single Weight:	5.1 oz
Case Pack:	50
Case Weight:	17 lbs

400AL WATER BREAKER™

- Original Professional Waterbreaker
- Fast, Full-Flow Watering
- Gentle Flow Won't Damage Plants
- Cast Aluminum with 3/4" Brass Threads
- Manufactured in USA Since 1945



Item Number:	170AL
GPM:	7 @ 40 PSI
Single Weight:	1.6 oz
Case Pack:	64
Case Weight:	8 lbs

170AL WATER BREAKER™

- Narrow Water Pattern for Containers & Hanging Baskets
- Designed for Low or Restricted Water Pressures/Volumes
- Adjusts flow to 50% of Possible Volume
- Cast Aluminum with 3/4" Brass Threads
- Manufactured in USA



Item Number:	1000PL
GPM:	11 @ 40 PSI
Single Weight:	1.6 oz
Case Pack:	50
Case Weight:	6 lbs

1000PL REDHEAD™ WATER BREAKER™

- Softest Full-Flow Watering Nozzle Available
- Waters Plugs or Seedlings
- Over 1000 Micro-Holes Create an Ultra-Soft Shower
- Will Not Disturb Delicate Soil or Harm Tender Plants
- High Impact Cyclac Plastic and Stainless Steel
- Manufactured in USA

use a DRAMM In-Line Hose Filter to eliminate clogging



Item Number:	750PL
GPM:	8 @ 40 PSI
Single Weight:	1.6 oz
Case Pack:	50
Case Weight:	6 lbs

750PL LEMONHEAD™ WATER BREAKER™

- Soft Full-Flow Watering Nozzle
- Great When Other Nozzles are Too Much Flow
- 750 Holes Create an Ultra-Soft Shower with Less Water
- Will Not Disturb Delicate Soil or Harm Tender Plants
- High Impact Cyclac Plastic and Stainless Steel
- Manufactured in USA

use a DRAMM In-Line Hose Filter to eliminate clogging

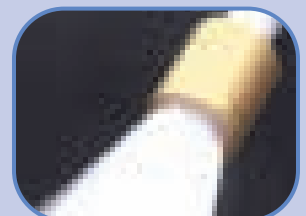


Item Number:	480AL
GPM:	7 @ 40 PSI
Single Weight:	1.6 oz
Case Pack:	64
Case Weight:	8 lbs

480AL WATER BREAKER™

- Narrow Water Pattern for Edge Watering
- Over 480 Micro-Holes Create an Ultra-Soft Shower
- Will Not Disturb Delicate Soil or Harm Tender Plants
- Waters Plugs or Seedlings
- Cast Aluminum and Stainless Steel with 3/4" Brass Threads
- Manufactured in USA

use a DRAMM In-Line Hose Filter to eliminate clogging

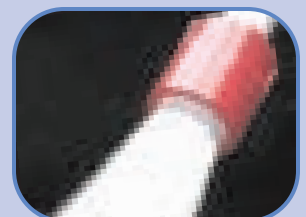


Item Number:	480PL
GPM:	7 @ 40 PSI
Single Weight:	1 oz
Case Pack:	64
Case Weight:	4 lbs

480PL WATER BREAKER™

- Narrow Water Pattern for Edge Watering (slightly narrower than 480AL)
- Over 480 Micro-Holes Create an Ultra-Soft Shower
- Will Not Disturb Delicate Soil or Harm Tender Plants
- Waters Plugs or Seedlings
- High Impact Cyclac Plastic and Stainless Steel
- Manufactured in USA

use a DRAMM In-Line Hose Filter to eliminate clogging



WATERING TOOLS



400PL WATER BREAKER™

- Fast, Full-Flow Watering
- Gentle Flow Won't Damage Plants or Wash Away Soil
- Professional's Lightweight Alternative to Original 400AL
- High Impact Cylolac Plastic and Aluminum
- 3/4" Hose Threads
- Quality Made in USA

Item Number:	400PL
GPM:	11.1 @ 40 PSI
Single Weight:	1.3 oz
Case Pack:	50
Case Weight:	6 lbs



170PL WATER BREAKER™

- Narrow Water Pattern for Containers & Hanging Baskets
- Adjusts Flow to 50% of Possible Volume
- Designed for Low or Restricted Water Pressures/Volumes
- Professional's Lightweight Alternative to 170AL
- High Impact Cylolac Plastic and Aluminum
- Quality Made in USA

Item Number:	170PL
GPM:	7 @ 40 PSI
Single Weight:	1 oz
Case Pack:	64
Case Weight:	4 lbs



SEEDLING NOZZLE™

- Water Fragile Plants, Delicate Seedlings or Plant Cuttings
- Produces an Extra Fine, Hollow "Cone Mist Pattern"
- Sprays 1/2 gallon of Water per Minute
- 3/4" Brass Threads
- Made in USA from Solid Brass

Item Number:	510
GPM:	1/2 @ 40 PSI
Single Weight:	2.7 oz
Case Pack:	24
Case Weight:	5 lbs



FOGG-IT NOZZLE™

- Mist Delicate Seedlings
- Raise Humidity around Wilting Plants
- Three Mist Jets Create a Conical Spray Pattern
- Available in 4 Discharge Rates
- 3/4" Brass Threads
- Made in USA from Solid Brass

Single Weight:	4.2 oz	(All)
Case Pack:	64	(All)
Case Weight:	18 lbs	(All)

Item Number:	610SF
GPM:	1/2 @ 40 PSI
Item Number:	610F
GPM:	1 @ 40 PSI
Item Number:	610L
GPM:	2 @ 40 PSI
Item Number:	610H
GPM:	4 @ 40 PSI



350 SCREEN-AIRE™

- Water Nursery Containers
- Gentle, Concentrated, Aerated Flow
- Increase Watering Speed in Large Containers
- Cast Aluminum with 3/4" Brass Threads
- Manufactured in USA

use a DRAMM In-Line Hose Filter to eliminate clogging

Item Number:	350AL
GPM:	18 @ 40 PSI
Single Weight:	5.6 oz
Case Pack:	25
Case Weight:	10 lbs



BRASS ROSE

- Extra Wide Spray Pattern
- Increases Speed of Hand Watering
- Water Bedding Plants, Pots or Market Packs
- Includes Protective Rubber Guard & Metric to Inch Hose Thread Converter
- 3/4" Brass Hose Threads
- Made in Germany

Item Number:	540B
GPM:	18 - 20 @ 40 PSI
Single Weight:	8.7 oz
Case Pack:	10
Case Weight:	20 lbs

WATERING TOOLS

Item Number:	800
Single Weight:	5.8 oz
Case Pack:	24
Case Weight:	9 lbs

Item Number:	22624
GPM:	--
Single Weight:	.54 oz
Case Pack:	12
Case Weight:	9 lbs

Item Number:	HP-625
Single Weight:	4.4 oz
Case Pack:	25
Case Weight:	8 lbs

Item Number:	116-G	124-G
Single Weight:	4.1 oz	5.2 oz
Case Pack:	12	(Both)
Case Weight:	4 lbs	5 lbs

Item Number:	130-G	136-G	148-G
Single Weight:	5.8oz	6.6oz	8.1oz
Case Pack:	6	(All)	
Case Weight:	4 lbs	4 lbs	5 lbs

Item Number A:	106-G•Handi-Grip
Single Weight:	2.3 oz
Case Pack:	12
Case Weight:	4 lbs

Item Number B:	1100•filter element
GPM:	11 @ 40 psi
Single Weight:	.02 oz
Case Pack:	25
Case Weight:	1 lb

Item Number:	136-GB	148-GB
Single Weight:	6.5 oz	8.1 oz
Case Pack:	6	(Both)
Case Weight:	4 lbs	5 lbs

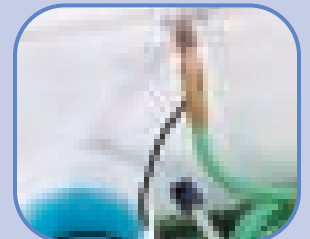
ADJUSTABLE HOSE NOZZLE

- Great Cleanup Nozzle- Cleans Walkways, Benches, etc.
- Twisting Barrel Adjusts Water from Fan to Cone Spray to Powerful Stream
- 3/4" Brass Hose Threads
- Made in USA from Solid Brass



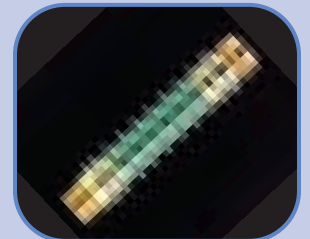
SYPHONJECT

- Fertilizing Has Never Been Easier
- Heavy Duty Brass Siphon Mixer
- Fertilizes as You Water
- Average Dilution Ratio 16:1
- Built-In Vacuum Break
- 3/4" Male & Female Hose Threads



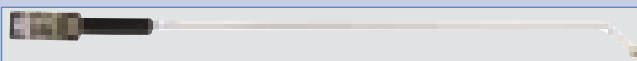
HOSE PROTECTOR

- Saves Hose Ends from Everyday Stress and Strain
- Prevents Hose-End Kinking & Damage to Hose Couplings
- Quickly Connects between Faucet and Hose
- Heavy-Duty Zinc Plated Steel & Brass
- 3/4" Male & Female Hose Threads
- Made in USA



HANDI-REACH™ HANDLE

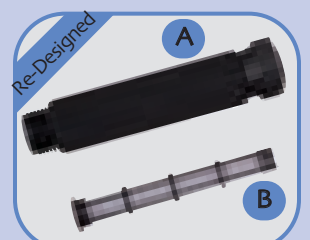
- Eliminates Stretching and Stooping Associated with Hand Watering
- 16, 24, 30, 36, and 48 Inch & 5 & 6 Feet Lengths
- Compatible With Any Dramm Nozzle
- 3/4" Male & Female Hose Threads
- Made in USA from Extruded Aluminum & Brass



IN-LINE HOSE FILTER

- 100 Mesh Nylon Filter Eliminates Nozzle Clogging
- Filters Unwanted Dirt and Debris
- EPDM Foam Rubber Grip for Comfort
- Use with Any Dramm Waterbreaker to Eliminate Clogs

Item Number:	X100HFC (A&B pair)
Single Weight:	.16 oz
Case Pack:	25
Case Weight:	5 lbs



HANGING BASKET HANDLE

- 90° Bend Waters Hard-To-Reach Hanging Baskets Easily
- 36 and 48 Inch Lengths
- Compatible with 170 Water Breakers for Basket Watering
- 3/4" Male & Female Hose Threads
- Made in USA from Extruded Aluminum & Brass



WATERING TOOLS



BRASS SHUT-OFF

- Best Shut-Off Valve Available
- Full Water Flow
- Ball Opening 1/2"
- Large Ergonomic Lever
- Fingertip Water Control
- Made in USA from Brass, Teflon® Seals and Chrome Plated Ball

Item Number:	300
Single Weight:	7.9 oz
Case Pack:	25
Case Weight:	14 lbs



SHUT-OFF VALVE

- Full Water Flow
- Ball Opening 5/8"
- Ultra Heavy Duty
- Large Ergonomic Lever
- Lightweight for All-Day Use
- 3/4" Male & Female Hose Threads
- Fiber Filled Polypropylene

Item Number:	74
Single Weight:	2 oz
Case Pack:	50
Case Weight:	6.6 lbs



SHUT-OFF VALVE

- Quarter Turn & Water is Off- Even With Wet Hands
- Withstands Higher Pressure than Comparable Valves
- Ball Opening 3/8"
- Lightweight, High Impact Cylolac Plastic
- 3/4" Male & Female Hose Threads

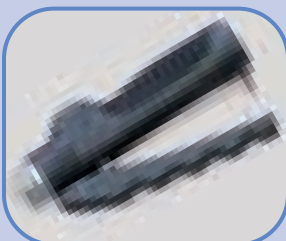
Item Number:	45
Single Weight:	1 oz
Case Pack:	50
Case Weight:	4 lbs



THUMB VALVE

- Thumb Controlled Shut-Off Valve
- Designed for Quick and Easy Watering
- Use with Dramm 170 Water Breaker™ Nozzle
- Chrome-Plated, Die-Cast Zinc and Brass
- 3/4" Male & Female Hose Threads

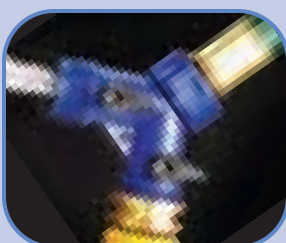
Item Number:	55
GPM:	5 @ 40 PSI
Single Weight:	6.7 oz
Case Pack:	12
Case Weight:	6 lbs



LEVER ACTIVATED SHUT-OFF VALVE

- Lever Activated Shut-Off Valve
- Designed for Quick and Easy Watering
- Higher Water Flow than Comparable Triggers
- Great with Dramm 170 WATER BREAKER™ Nozzle
- 3/4" Male & Female Hose Threads

Item Number:	65
GPM:	6 @ 40 PSI
Single Weight:	4 oz
Case Pack:	12
Case Weight:	5 lbs



TWIN SHUT-OFF

- Water Two Places at One Time
- High Impact Cylolac Plastic
- 3/4" Male & Female Hose Threads

Item Number:	235
Single Weight:	1.2 oz
Case Pack:	24
Case Weight:	3 lbs

WATERING TOOLS

Item Number:	740 (Pair)
Single Weight:	3.7 oz (Pair)
Case Pack:	25 (Pairs)
Case Weight:	6 lbs
Item Number:	741 742
Single Weight:	1.5 oz 2.2 oz
Case Pack:	25 (Both)
Case Weight:	3 lbs 4 lbs
Item Number:	710 Twisty Quick
Single Weight:	.08 oz
Case Pack:	25 (Pairs Only)
Case Weight:	4 lbs

Item Number:	775MC - 775 FC
Single Weight:	3.0 oz- 3.4 oz
Case Pack:	10 (Both)
Case Weight:	3 lbs (Both)

Item Number:	625 675
Single Weight:	3.9 oz 4.2 oz
Case Pack:	10 (Both)
Case Weight:	3 lbs (Both)

BRASS DISCONNECT

- Professional Quality Brass Quick Hose Connection
- Eliminates Hassle of Connecting & Disconnecting Hoses & Hose Accessories
- No More Turning! Pull Collar Back to Connect or Disconnect
- 3/4" Male & Female Hose Threads
- Available Pair, Male Portion (741), or Female Portion (742)
- Made in USA from Heavy-Duty Brass



TWISTY QUICK™

- Professional Quality Quick Hose Connection
- Eliminates Hassle of Connecting & Disconnecting Hoses & Hose Accessories
- 3/4" Hose Threads
- Made in USA from Super Tough Dupont® Nylon



MALE & FEMALE BRASS TWISTY QUICK™

- 1/4 Turn Quick Disconnects
- Makes Any Threaded Hose Connection Easy to Couple/Uncouple
- Use in Any Combination with 625 & 675 Twisty Quicks
- 775M for 3/4" Male Thread - 775F 3/4" Female Thread
- Made in Germany from Forged Brass



BRASSTWISTY QUICK™

- 1/4 Turn Quick Disconnects with Hose Barb Fittings for Use with Blunt Cut Hoses
- Use in Any Combination with 775M and 775F Twisty Quick
- 625 for 5/8" ID Hose- 675 for 3/4" ID hose
- Made in Germany from Forged Brass



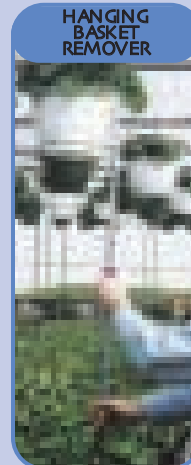
SWISS WATERING CANS



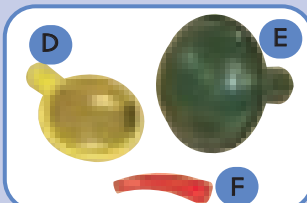
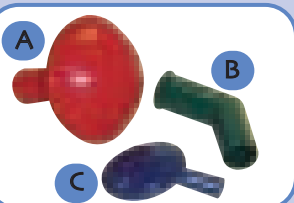
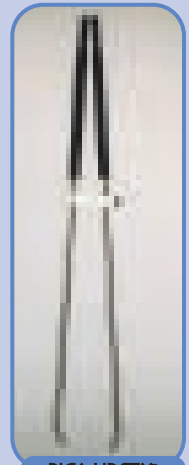
USA 5 LITER CANS



HANGING BASKET REMOVER



PICK-UP STIX™



Replacement Roses:

- A. 10 liter Rose B. 10 Liter Spout C. 2 Liter Rose
 D. 5 Liter Brass E. 7 Liter Rose F. 2 Liter Spout

Professional Watering Cans

- Superior Design & Durability
 2 Liter1/2 gal (Swiss)
 5 Liter1 1/3 gal (USA)
 7 Liter1 3/4 gal (Swiss)
 10 Liter2 1/2 gal (Swiss)

Hanging Basket Remover

- 10" Ring Conveniently Removes Hanging Baskets from Above
- 8" or 12" Rings also Available

Pick-Up Stix™

- Jumbo tweezers for liter pick up
- Aluminum Plated steel w/Comfort Grip

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.



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

DRAMMATIC® "O"

- Organic or Conventional Crops
- Naturally Complete Plant Food
- Liquid Fish
- 1 gal, 5 gal, 55 gal, 2-75 gal Totes, or Bulk

Item Number: FFO-_____

Analysis: 2-5-0.2

Certification: OMRI Listed

DRAMMATIC® "K"

- Organic or Conventional Crops
- Naturally Complete Plant Food
- Liquid Fish & Kelp
- 1 gal, 5 gal, 55 gal, 2-75 gal Totes, or Bulk

Item Number: FFK-_____

Analysis: 2-5-0.2

Certification: OMRI Listed

DRAMMATIC® "ONE"

- Organic or Conventional Crops
- Naturally Complete Plant Food
- Blend of Liquid Fish, Kelp, Chilean Nitrate & "Energy"
- 1 gal, 5 gal, 55 gal, 2-75 gal Totes, or Bulk

Item Number: FFONE-_____

Analysis: 4-4-0.5

Certification: OMRI Listed

DRAMMATIC® LIQUID FISH HYDROLYSATE



FRESH FISH & FISH
SCRAPS



FRESH FISH
GROUND DAILY



COLD PROCESS
NATURAL ENZYMATICAL
LIQUIFYING TECHNIQUE



FINE FILTERED



100% PURE
LIQUID FISH
HYDROLYSATE

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.

Item #: 17300

Hose Diameter: 5/8 inch

standard length: 100ft, others available

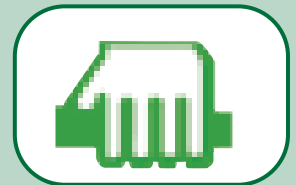
ColorStorm™ Professional Rubber Hose

- 100 ft Professional Rubber Hose- *call for custom*
- 5/8" Diameter for Full Flow
- Bright Yellow for Visibility
- Kink-Proof Design for Easy Use



Sure-Grip™ Technology

- Durable, Abrasion Resistant Cover
- Increases Comfort



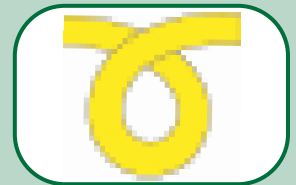
Crush-Proof Couplings

- Nickel Plated Brass Couplings
- Corrosion Resistant
- Crush Proof

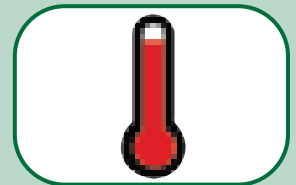


Kink Resistant

- Coils Easily
- Flexible to -25° F



Hot Water Resistant to 160°F

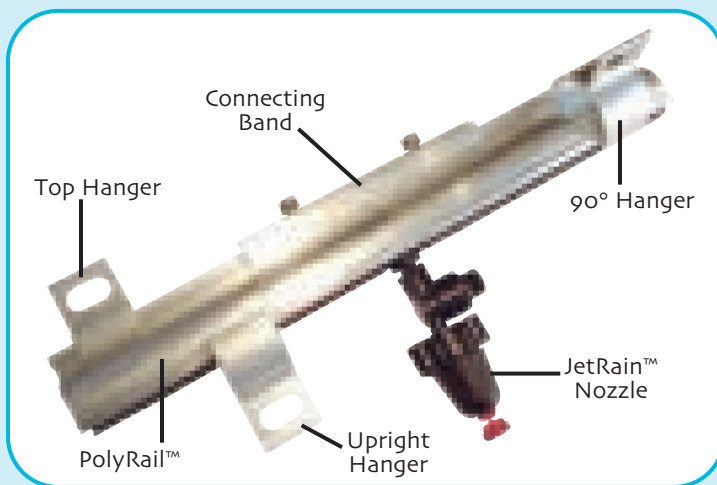


Bright Yellow for Visibility



IRRIGATION SYSTEMS

Dramm has been the leader in watering your plants since 1945. 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.



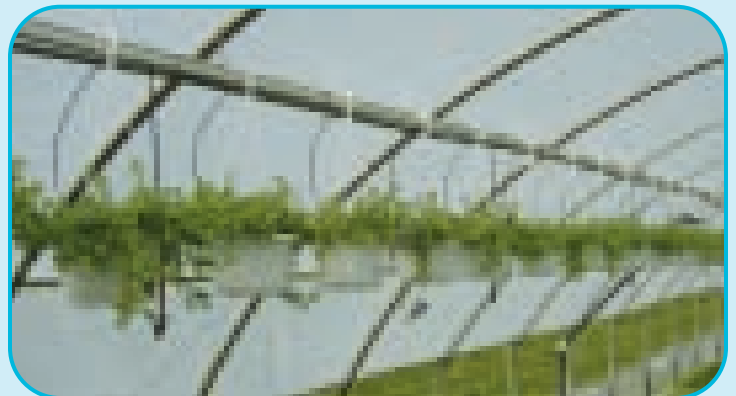
DRAMM POLYRAIL™

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: 16mm

standard length: 12 ft - 25mm

Item #: Item #: ALU502H Top Rail

Item #: ALU500PH 90° Hanger

Item #: ALU 50135

Item #: ALU 501CB

Item #: ALU 541S

Item #: ALUSC cap

Item #: ALUS base

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

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



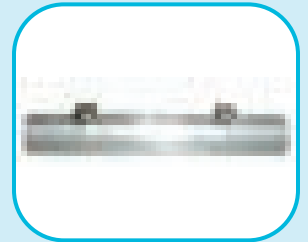
14" CONNECTING BAND

- Connects PolyRail Together
- Use When Extra Support is Required or to Cover Open Spaces in PE Tubing



CONNECTING BAND

- Connects PolyRail Together
- Slides on Rail
- Set Screws Provide Secure Connection



STOP

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

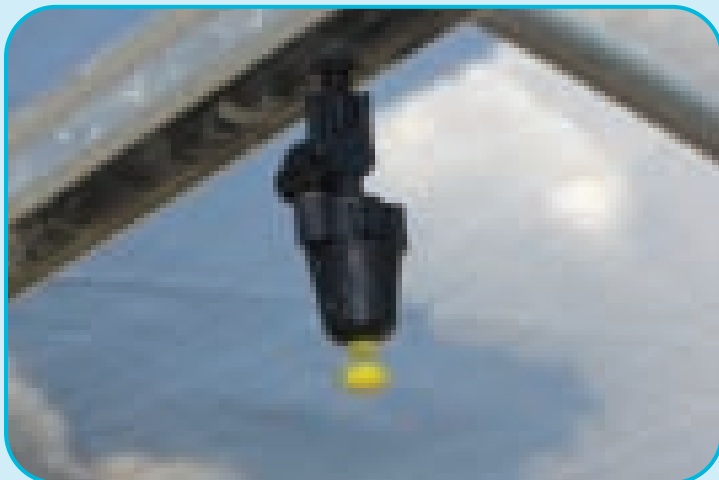


POLYRAIL BENCH RISER- cap/base/tube

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



IRRIGATION SYSTEMS

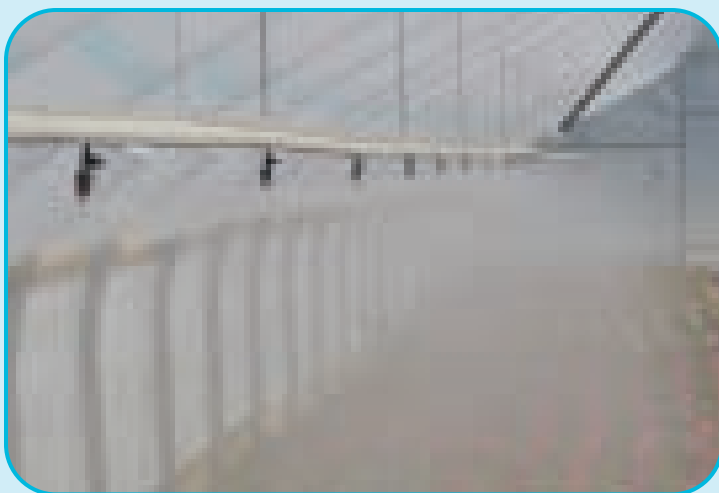


DRAMM JetRain™ NOZZLE

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



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.

IRRIGATION SYSTEMS

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

specs: Barbed JetRain

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

specs: Threaded JetRain

see below chart for output rate

individual components available—
consult commercial price list

Item #: JRLP180-B-__ (specify color)

specs: Barbed 180 JetRain

Item #: JRLP180-T-__ (specify color)

specs: Threaded 180 JetRain

individual components available—
consult commercial price list

Item #: HNA-__ (color)

variable lengths available

see below chart for output rate

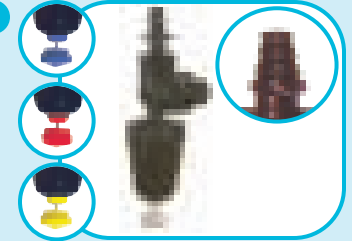
Item#: ALBR-15-JR-(specify color)

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
- Pres 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



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

DRAMM JETFOG™ NOZZLE



Dramm JetFog™ nozzles produce a fine fog (80µ) at pressures between 50 – 70 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 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



IRRIGATION SYSTEMS

Item#: JF-T Threaded

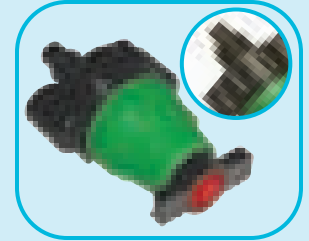
Item#: JF-B Barbed

Flow Rate: 5.8 lph

Spacing: variable to conditions & use

JETFOG™ NOZZLE

- Low Pressure Fog Nozzle
- Great for Cooling and Humidification
- 80µ Particle Size for Fine Fog
- Operates Between 40 and 60 psi
- Barbed or 3/8"WW Threaded Connection
- Built in Check Valve
- Pressure Compensated



Item #: JF4-T (Threaded)

Item #: JF4-B (Barbed)

Flow Rate: 23.2 lph

Item #: JF5-T (Threaded)

Item #: JF5-B (Barbed)

Flow Rate: 29 lph

JETFOG™ 4-WAY or 5-Way

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



JETFOG™ for Propagation



IRRIGATION SYSTEMS

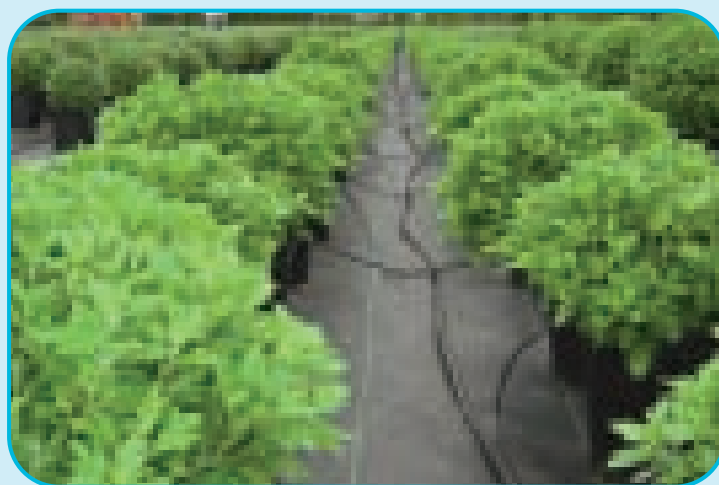


DRAMM PRESSURE COMPENSATED DRIP SYSTEM

Dramm 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. Dramm 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. Dramm 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

IRRIGATION SYSTEMS

Item #: PCAS2L- 2lph (0.5 gph)

Item #: PCAS4L- 4lph (1 gph)

Item #: PCAS-W

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

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

Item #: LST-45

Item #: ST-45 no labyrinth

Item #: MAN2 2 outlets

Item #: MAN4 4 outlets

PCAS EMITTER

- 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

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

PCAS EMITTER BARREL

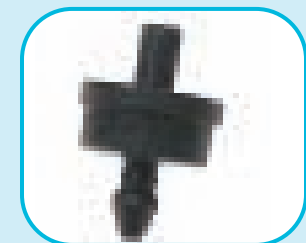
- Pressure Compensated
- Two Different Flow Rates Available
- Silicone Diaphragm for Longer Life
- Double Cone Lock Barb for Secure Fit
- Three Entry Points into Labyrinth Prevent Clogs
- Use with 2 & 4-Way Manifolds & Labyrinth Stakes for Multi-Outlet Use

STAKES

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

MULTI-OUTLET MANIFOLDS

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



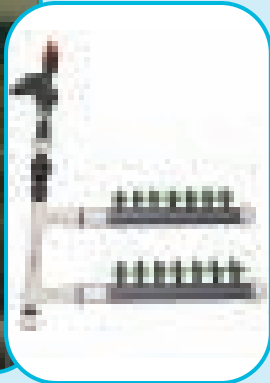
complete basket assembly

IRRIGATION SYSTEMS



VALVE STATION MANIFOLD

- Pre-engineered Solution to Drip Irrigation Headers
- Includes all Fittings and Connections
- Includes Hand Valve, 150 Mesh Filter & Pressure Regulator
- Optional Solenoid Valve
- Easy to Install– Just Connect Supply Line and PE Lines
- Provides Easy Access to Individual Line Valves
- Easy to Maintain– Union Allows Access to Threaded Components



Item#: VSM-__ (specify # outlets)

Item#: VSMS-__ (includes 1 sol. valve)

Item#: VSM2S-__ (includes 2 sol. valve)

Connection: 1" Slip Fit

Outlets: 16mm barbed, easyloc



MUM MANIFOLDS

- Re-Engineered Solution to Field Crop Drip Headers
- Includes all Fittings and Connections
- Easy to Install– Just Connect Supply Line and PE Lines
- Available with Unique Metered Flow Valve
- No Power Required
- Available in 6 and 12 Outlet Model



Item #: MTA-125-MMV-6

Specs: 6 Outlet Manifold with
125 gal Metered Valve

Item #: MMV-6 (6 outlet only)

Item #: MTA-125-MMV-12

Specs: 12 Outlet Manifold with
125 gal Metered Valve

Item#: MMV-12 (12 outlet only)

IRRIGATION SYSTEMS

Item #: SVB075 - 3/4" no flow control
 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

Item #: MTA125 0.5 – 9 gpm
 Max Output: 125 gal max output
 Item #: MTA300 0.5 – 9 gpm
 Max Output: 300 gal max output
 Item #: MT300 2.5 – 22 gpm
 Max Output: 300 gal max output
 Item #: MT550 2.5 – 22 gpm
 Max Output: 550 gal max output

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.

Item #: SVB150-NP55M
 Specs: 1.5" Pres. Reducing w/Flow Control
 Item #: SVB200-NP55M
 Specs: 2" Pres. Reducing w/Flow Control

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)



METERED VALVE

- Delivers a Pre-Set Quantity of Water Before Shutting Off
- Select Variable Quantities of Water by Turning the Dial
- Available in 125 & 300 Gallon Maximum Quantities
- No Power Required– Perfect for Outdoor Use
- Available in 1" NPT



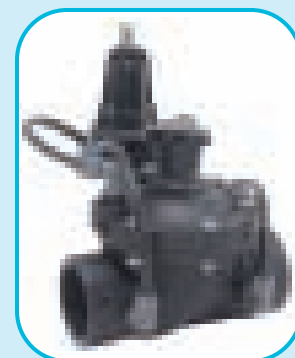
PRESSURE REGULATOR

- 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



PRESSURE REGULATOR VALVE

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



IRRIGATION SYSTEMS



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



MIRACLE PUNCH

- Adjustable: Supports PE Sizes from 16mm to 1.25"
- Easy, One Hand Operation
- Centers Hole Without Flattening PE Tubing
- 3mm Blade fits All Barbed Dramm Products



FILTERS

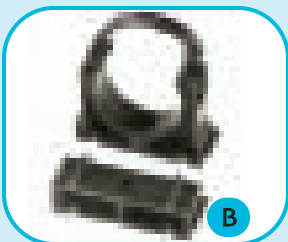
- Protects Irrigation Systems From Clogging
- Screen and Disc Filters Available
- 150 Mesh Standard, Other Sizes Available
- Variety of Pipe Sizes

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
- Variety of Pipe Sizes



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

Item #: PUNCH1650

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

Item #: PUNCH75100

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

Item #: ML-AMP-3

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)

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

HIGH PRESSURE MISTY MIST FLOW RATE GPM

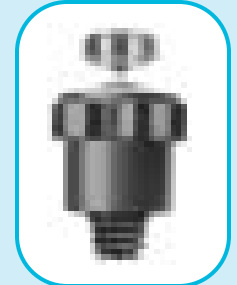
PART #	CAP COLOR	ORIFICE DIAMETER	73 PSI	145 PSI	290 PSI	435 PSI
HP-GW	Grey/White	0.75 mm	0.12	0.19	0.24	0.27

T-DROP NOZZLE FLOW RATE IN GPM

PART #	CAP 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 Dramm 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
- Easy "ON-OFF" Push Pin
- 10' Diameter Spray Pattern
- 3' Spacing
- Top or Bottom of Pipeline, or Riser Installation
- Use with Dramm 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 Dramm 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 Dramm Run-Out Valves, No-Drip Risers, & No-Drip Extension Check Valves



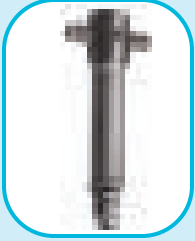
ASSEMBLY INSERT

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



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

IRRIGATION SYSTEMS

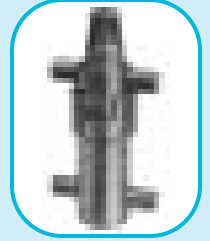


NO-DRIP RISER

- 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

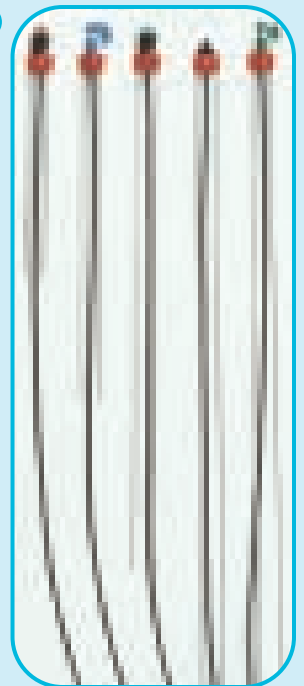


DRAMM HANDPIK™ TOOL

- Assembly Insert of Brass Eyelets in Poly Tubing for Dramm Dribble Tubes and 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



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

IRRIGATION SYSTEMS

Enclosure: plastic PVC IP54
Power Supply: 120V or 240V AC
Frequency: 60 Hz
Power Tolerance: +/- 10%
Temp Scale: Fahrenheit or Celsius

Enclosure: NEMA 4 rated PVC
Power Supply: 120v AC
Power Output: 24v AC
Overload Protection: fuse

Enclosure: NEMA 4 rated PVC
Power Supply: 120v AC
Power Output: 24v AC
Overload Protection: multiple surge
Output Relay: 10 amps

Item #: GV075 - 3/4"
Item #: GV100 - 1"
Power Source: 9v battery
Battery Life: up to 1 year

RAIN COMMAND™

- Multi-Function Irrigation Control
- Easy to Program & Use
- Mist & Irrigation Control in Same Unit
- Simple or Advanced Programming Option
- 42 Individual Programmable Start Times per Day per Valve



MIST TIME™

- Precision 8-Valve Misting Controller
- Temperature Input
- Pump Output Option
- Easy-to-Read Display
- Easy-to-Use Controls



RAIN TIME™

- 8-Valve Irrigation Controller with Manual Selection
- Max. Irrigation Duration of 99.9 Minutes
- Manual Start
- Auto Stop
- Easy-to-Read Display
- Easy-to-Use Controls



AUTOVALVE™

- 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



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. The Dramm Reldair High Pressure Fog System utilizes higher pressure than other fog systems. This results in smaller droplets that evaporate quicker leaving no wetness. Unique innovations such as flexible, high pressure hose instead of stainless piping and custom control and pumpset features complete the system.



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



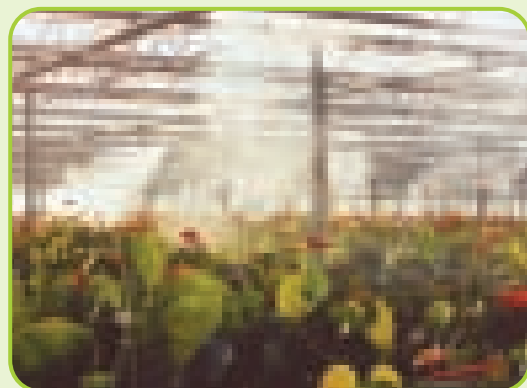
RELDAIR™

- High Pressure Fog System
- Ultra-Fine for Cooling & Humidification
- Eliminates Wetness beneath Nozzles
- Custom-Built Systems
- Installs Easily
- Requires Little Maintenance

Power Supply: variable

Operating Pressure: triplex pump 1,800 psi

Average Particle Size: less than 10µ



ENVIRONMENTAL CONTROL

Power Supply: 208/240V

Frequency: 60 Hz

Overload Protection: thermal contact

AME HAF FAN

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



• *contact Dramm for a custom layout for your greenhouse* •

Enclosure: plastic PVC IP54

Power Supply: 208/240V

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

Alarm Output: relay SPDT no load

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
- 5 Different Sizes Available



HYDRAULIC SPRAYERS



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

Model: HYDRA

Chemical Tank Volume: 50 gallons

Chemical Output Rate: up to 3.8 gpm

Maximum Pressure: up to 500 psi

Pump HP: 1.5 hp electric

System Rated Load: 18 amp or 9 amp

Hose Length: 150 ft w/variable drag reel

Dimensions: 26" 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

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: 250 ft w/variable drag reel

Dimensions: 33" 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

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: 1- 250' w/variable drag reels

Hose Option: 2- 250' w/variable drag reels

Dimensions: 38" wide



HYDRASKID™

- High Volume Hydraulic Sprayer
- Applies most chemical formulations
- Variety of droplet sizes & spray distances

Model: HYDRA-SKID

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: 2- 250' w/variable drag reels

Dimensions: 38" wide

• for a listing of available trigger guns and lances see page 25 •

HYDRAULIC SPRAYERS

Model: MSO

Chemical Tank Volume: not included

Chemical Output Rate: up to 0.5 gpm

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 0.5 gpm

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

Shipping Weight: 97 lbs

MS20 SPRAYER

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



Model: MSO-GAS #2

Chemical Tank Volume: not included

Chemical Output Rate: up to 1.8 gpm

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
- 4-Cycle Honda Gasoline Engine



Model: MS20GAS-66

Chemical Tank Volume: 20 gallon

Chemical Output Rate: up to 1.8 gpm

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
- 4-Cycle Honda Gasoline Engine



CHEMICAL APPLICATION

With more than 35 Different spraying systems, our goal is to provide a solution to every problem. Recognizing that there is no "one way" or magic bullet when it comes to chemical application, Dramm offers a variety of options, sizes and shapes of sprayers. With years of experience, Dramm can help determine the best sprayer for your needs and offer advice on how to use it. From our line of hydraulic sprayers and targeted Coldfogger line- to the PulsFOG™ and Autofog™ Ultra Low Volume systems, Dramm has you covered.



TURBAIR ELECTRAFAN

- Lightweight, Portable Sprayer
- Low Volume & Ultra Low Volume
- Applies Most Chemical Formulations
- Treat Crops, Control Pests, Administer Vaccines
- Electrically Powered; No Pumping
- 110 Volts 60 HZ
- Battery Operated Unit Available

Model: TEF Turbair Electrafan

Chemical Tank Volume: 1 liter

Chemical Output Rate: 1 - 3.6 oz/min

Droplet Size: 60-80µ

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

Coverage Distance: 10 - 20 ft

Power Supply: A/C electric motor

Shipping Weight: 15 lbs



MOTAFAN

- Gasoline Power Portable Sprayer
- Low Volume & Ultra Low Volume
- Applies Most Chemical Formulations
- Treat Crops, Control Pests, Administer Vaccines
- Fatigue Reducing Shoulder Carry Frame

Model: GMF Motafan

Chemical Tank Volume: 1 liter

Chemical Output Rate: 1 - 3.6 oz/min

Droplet Size: 60-80µ

Power Supply: 22cc 2-stroke engine

Distance Covered: 10 - 20 ft

Area Covered: 15 lbs

Power Supply: A/C electric motor

Shipping Weight: 15 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

Model: ULVA+

Chemical Tank Volume: 1 liter

Chemical Output Rate: 25 - 60ml/min

Power Supply: up to 8 - D cell batteries

Droplet Size: 50-60µ

Shipping Weight: 5 lbs

CHEMICAL APPLICATION

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



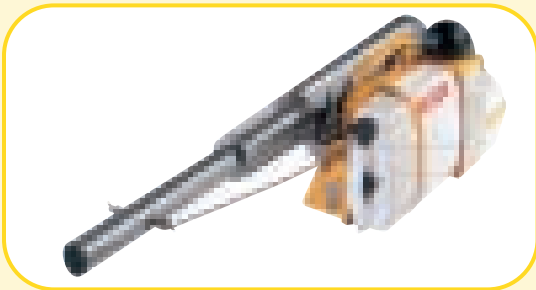
CHEMICAL APPLICATION



K-10 PULSFOG™

- Greenhouse
- 25 Horsepower
- Portable
- 1 Nozzle

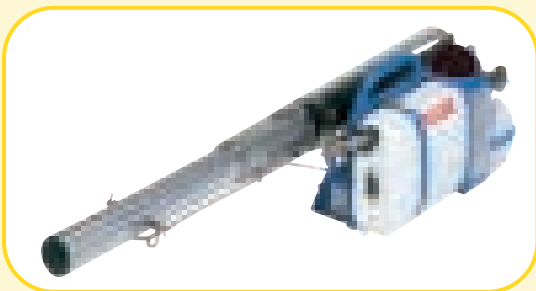
Model Number:	K-10
Weight Empty:	18 lbs
Output Time:	10L/45 min
Distance Chem Propelled w/VK I:	100 ft
Distance Chem Propelled w/VK II:	45 ft
Chem Tank Capacity:	10 liters
Chem Tank Capacity:	2.6 gallons
Fuel Tank Capacity:	2 liters/0.5 gal



K-22 PULSFOG™

- Greenhouse
- 50 Horsepower
- Portable
- 1 Nozzle

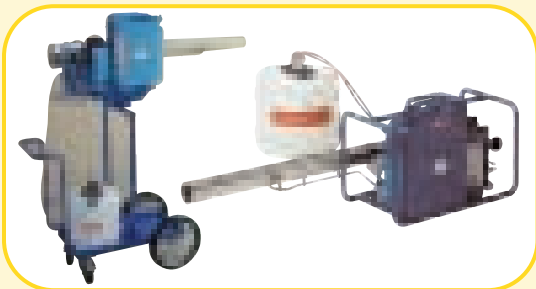
Model Number:	K-22
Weight Empty:	18 lbs
Output Time:	10L/30 min
Distance Chem Propelled w/VK I:	160 ft
Distance Chem Propelled w/VK II:	65 ft
Chem Tank Capacity:	10 liters
Chem Tank Capacity:	2.6 gallons
Fuel Tank Capacity:	2 liters/0.5 gal



K-30 PULSFOG™

- Greenhouse
- 101 Horsepower
- Portable
- 2 Nozzles

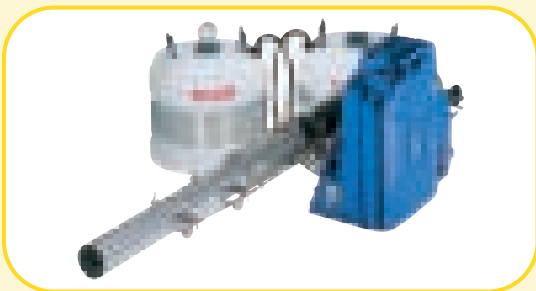
Model Number:	K-30
Weight Empty:	25 lbs
Output Time:	10L/15 min
Distance Chem Propelled w/VK I:	200 ft
Distance Chem Propelled w/VK II:	100 ft
Chem Tank Capacity:	10 liters
Chem Tank Capacity:	2.6 gallons
Fuel Tank Capacity:	2 liters/0.5 gal



K-3/20 PULSFOG™

- Greenhouse
- 101 Horsepower
- K-3/20 Portable
- K-3/20F Frame Mounted Non-Portable
- Optional Cart
- 2 Nozzles

Model Number:	K-3/20 & K-3/20F
Weight Empty:	25 lbs & 42 lbs
Output Time:	30L/45 min
Distance Chem Propelled w/VK I:	200 ft
Distance Chem Propelled w/VK II:	100 ft
Chem Tank Capacity:	30 liters
Chem Tank Capacity:	7.8 gallons
Fuel Tank Capacity:	20 liters/5.2 gal



K-30/20 BIO PULSFOG™

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

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.

Model Number:	K-30/20/BIO
Weight Empty:	67 lbs
Output Time:	60L/45 min
Distance Chem Propelled w/VK I:	200 ft
Distance Chem Propelled w/VK II:	100 ft
Chem Tank Capacity:	2- 30 liter tanks
Chem Tank Capacity:	2- 7.8 gallon tanks
Fuel Tank Capacity:	2- 20 liter tanks
Fuel Tank Capacity:	2- 5.2 gallon tanks

CHEMICAL APPLICATION

Model Number: K-10/O
Weight Empty: 18 lbs
Output Time: 10L/45 min
Distance Chem Propelled w/VK I: 100 ft
Distance Chem Propelled w/VK II: 45 ft
Chem Tank Capacity: 10 liters
Chem Tank Capacity: 2.6 gallons
Fuel Tank Capacity: 2 liters/0.5 gal

K-10/O PULSFOG™

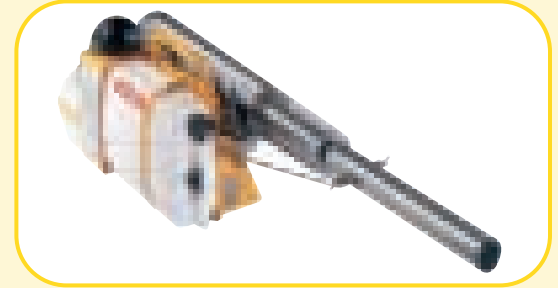
- Poultry/Livestock
- 25 Horsepower
- Portable
- 1 Nozzle



Model Number: K-22/O
Weight Empty: 33 lbs
Output Time: 10L/30 min
Distance Chem Propelled w/VK I: 160 ft
Distance Chem Propelled w/VK II: 65 ft
Chem Tank Capacity: 10 liters
Chem Tank Capacity: 2.6 gallons
Fuel Tank Capacity: 2 liters/0.5 gal

K-22/O PULSFOG™

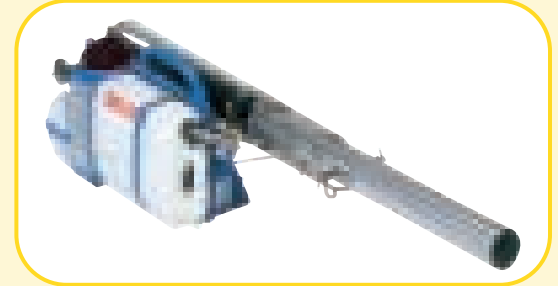
- Poultry/Livestock
- 50 Horsepower
- Portable
- 2 Nozzles



Model Number: K-30/O
Weight Empty: 42 lbs
Output Time: 10L/15 min
Distance Chem Propelled w/VK I: 200 ft
Distance Chem Propelled w/VK II: 100 ft
Chem Tank Capacity: 10 liters
Chem Tank Capacity: 2.6 gallons
Fuel Tank Capacity: 2 liters/0.5 gal

K-30/O PULSFOG™

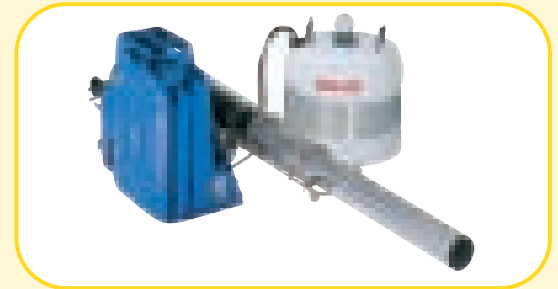
- Poultry/Livestock
- 101 Horsepower
- Portable
- 2 Nozzles



Model Number: K-30/20/O
Weight Empty: 58 lbs
Output Time: 30L/45 min
Distance Chem Propelled w/VK I: 200 ft
Distance Chem Propelled w/VK II: 100 ft
Chem Tank Capacity: 30 liters
Chem Tank Capacity: 7.8 gallons
Fuel Tank Capacity: 20 liters/5.2 gal

K-30/20/O PULSFOG™

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



Model Number: K-4 Bio
Weight Empty: 99 lbs
Output Time: 30L/30 min
Distance Chem Propelled w/VK I: 390 ft
Distance Chem Propelled w/VK II: 250 ft
Chem Tank Capacity: 2- 50 liter tanks
Fuel Tank Capacity: 20 liters

K-4 PULSFOG™

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



For best results, PulsFog requires the use of carrier solutions. Dramm carries 3 solutions: VK I, VK II, & NutriFOG.

CHEMICAL APPLICATION



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 @ 21 PSI

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 @ 21 PSI

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 @ 28.5 PSI

Hose & Cord Length: 100 ft

Dimensions: 18.25" wide

Shipping Weight: 187 lbs



DLVH DUAL AUTOFOG™

- Dual Head AutoFog™
- 240 Volts 60HZ
- Low Volume Spraying
- Treats 60,000 Sq Ft
- Treats 140,000 Sq Ft with Additional Fans
- Drastically Reduces Application Time

Model: DLVH Autofog™

Chemical Tank Volume: 2- 14 liters

Chemical Output Rate: 2- 55cc/min

System Rated Load: 14.2 amp

Compressor HP: 2- 1 hp

Compressor Output: 4.06 CFM @ 28.5 PSI

Hose & Cord Length: 2- 100 ft

Dimensions: 23" wide

Shipping Weight: 300 lbs

CHEMICAL APPLICATION

Model: 600M Mini Coldfogger™

Chemical Tank Volume: 30 liters

Chemical Output Rate: 1 liter/min

System Rated Load: 7.8 amp

Cord Length: 4 ft

Dimensions: 14" wide

Shipping Weight: 83 lbs

600M MINI COLDFOGGER™

- Targeted, Low Volume Chemical Application
- Drastically Reduce Labor Costs
- Low Volume Spraying
- 120 Volts 60HZ



Model: 606S Coldfogger™

Chemical Tank Volume: 45 liters

Chemical Output Rate: 1 liter/min

System Rated Load: 8.5 amp

Cord Length: 11 ft

Dimensions: 18" wide

Shipping Weight: 200 lbs

606S COLDFOGGER™

- Targeted, Low Volume Chemical Application
- Drastically Reduce Labor Costs
- Low Volume Spraying
- 120 Volts 60 HZ



Model: CF-ST50

Chemical Tank Volume: 50 gallon

Chemical Output Rate: 1 liter/min

Maximum Pressure: 3,000 psi

Pump HP: 1.5 hp electric motor

Hose Lengths: 300' w/variable drag reel

Dimensions: 38" wide

CF-ST50 COLDFOGGER™

- Targeted, Low Volume Chemical Application
- Drastically Reduce Labor Costs
- Low Volume Spraying
- Treats up to 200,000 Sq Ft
- Self Tracking Cart Design



Model: BP 502

Tank Volume: 5 gallons

Chemical Output Rate: Max. 1 gal/min

Power Supply: 12v DC; rechargeable

Length of Charge: 6 - 7 hrs

Weight when Full: 58.5 lbs

Shipping Weight: 18.5 lbs

BP502 BACKPACK SPRAYER

- 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



CHEMICAL APPLICATION



MS40-TG

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

Model: MS40-TG HYDRA Trigger Gun
Feature: adjustable trigger 1.25 gpm



MS-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



L-5 LANCE

- 5 Nozzle Ring for Turbulent Spray
- Adjustable Length
- Variable Flow Rate
- Perfect for Baskets and PGR Applications

Model: L-5 Lance
Feature: 5-nozzle ring, adj. length



DRENCHWAND

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

Model: Drenchwand
Feature: DA 24

CHEMICAL APPLICATION

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

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



Model: CD-2 Chemdose

Accuracy: +/- 1ml per cycle

Power Supply: 12v DC, Rechargeable

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: FC20-DT Dosatron™

Model: FC20-DM Dosmatic™

Tank Volume: 20 gallons

FC-20 FERTICART™

- Make Your Injector Portable
- Won't Tip
- 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



Model: WC-20

Tank Volume: 20 gallons

Power Supply: 12v rechargeable

Hose Length: 12 feet

WC-20 WATER CART

- Portable Watering System
- 4 gpm Output
- Rechargeable
- Pumps up to 300 gal Before Charging
- Constant Flow



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