

SPRAYERS and SPRINKLERS by TAVLIT



LANDSCAPE &
HOME GARDENING



TREES - ORCHARDS
Large • Medium • Small



FIELD CROPS
FLOWERS



HOT HOUSES
NURSERIES



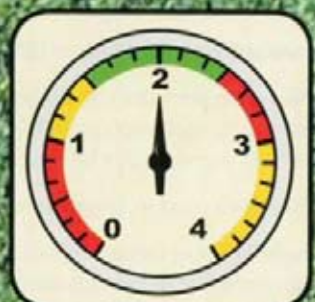
COOLING SYSTEM
FROST PROTECTION



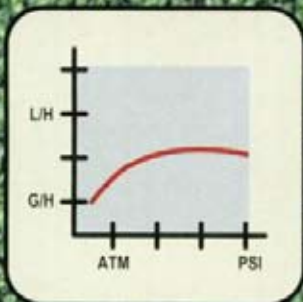
DROP SIZE



WETTING DIAMETER
RANGE (m)



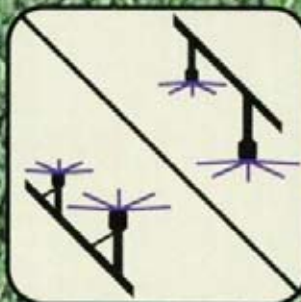
OPERATING PRESSURE



FLOW REGULATED
EMITTERS



INSECT PROTECTED



DOWNWARD POSITION
UPWARD POSITION



NFR NOZZLE FLOW REDUCER
INF INTEGRAL NOZZLE FILTER

Ein Dor & Agridor offer a wide selection of unique high quality low volume irrigation equipment. These state of the art emitters, manufactured from the highest quality materials, have excellent performance, accuracy, uniform water distribution as well as many other special features.

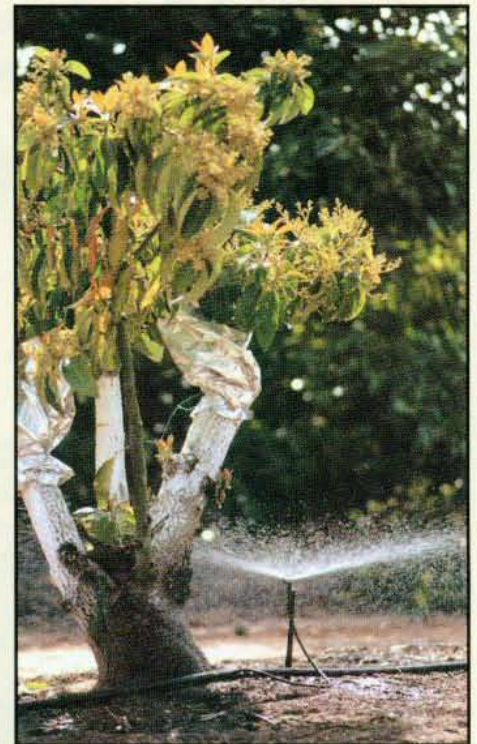
Ein Dor & Agridor emitters are especially designed to save water and energy by offering various changeable wetting diameters and flow rates to meet the requirements in the irrigation of :

- * Young and mature trees, orchards, citrus, banana, avocado, kiwi etc.
- * Vegetables * Flowers * Seedling * Germination
- * Hothouses * Nurseries
- * Parks and home gardens
- * For cooling and frost protection systems

Ein Dor & Agridor products are well known in Israel and abroad, irrigating thousands of acres around the world.

Computerized Support System

Ein Dor has developed a Computerized Support System containing technical specifications and performance, analysis of products, complete testing information, distribution profiles and overlapping evaluations. The program also incorporates basic irrigation system design and utility calculations which assist in selecting the suitable emitter for any specific project. Ein Dor software diskette is available free of charge upon request.



CAUTION

Data is based on tests carried out under laboratory conditions. Some deviations should be allowed under field conditions.

Constant improvements in Ein Dor's and Agridor's equipment can alter specifications without prior notice and without incurring liability.









Operating pressure should be considered according to the features of each emitter. Incorrect pressure interrupts the water distribution uniformity and may cause excessive wear and damage to the emitter. The use of operating pressure marked in "red" are prohibited and will therefore not be covered under guarantee.

Chemicals used in irrigation requires adequate flushing with clean water immediately after use.

Flushing must be carried out long enough to thoroughly clean the emitters and accessories from any chemical residue. The use of too high a chemical concentration or the use of prohibited chemicals which attack the plastic product will not be covered under guarantee.



EMITTERS — APPLICATIONS

EMITTER		APPLICATIONS									SPECIAL FEATURES							
		TREES			OVERLAPPING		GARDENS	FROST & COOLING										
TYPE	SERIES									IP	INF	NFR	RJC	LDE	NBE	LP	SECTOR*	FLOW RATES RANGE L/H
Sprinkler	920/940	•			•	• ▲	•	•	•	•	•				•		360	180-300
	961	•			•	• ▲	•	•	•	•	•				•		360	120-160
	961p				•	• ▲	•			•	•				•		90-270	120
Mini-Sprinkler	861				•	▲▼	•	•	•	•	•				•	•	360	35-160
	862/862r		•	• R			•			•	•		•		•	•	360	35-160
	863/863r		•	• R			•			•	•	•	•		•		360	20
	866					• ▼			•		•				•		360	35-160
	831	•			•	• ▲	•	•	•	•							360 ☒	35-240
	841	•	•		•	• ▲	•	•	•	•						•	360 ☒	35-160
	850	•					•			•							180-200	50-90
	801	•			•	• ▲	•	•	•							•	360 ☒	20-240
	803					• ▼			•								360 ☒	35-240
Sprayer	4460		•				•				•	•					360 ☒	40-90
	4461		•				•				•	•		•			320	40-90
	4462		•				•				•	•					360 ☒	20-90
	4463			•			•				•	•					360 ☒	20-90
	4442		•	•			•				•	•					twin	20-90
	4444		•				•				•	•					ellipse	40-90
	4452						•				•	•					180	40-90
	4454						•				•	•		•			90	40-70
	4168	•									•			•		•	360	35-180
	700		•	•			•			•					•		360	40-160
	806		•	•			•										360 ☒	35-240
	806s			•			•										360 ☒	35-240
	807		•	•			•			•							360 ☒	35-160
Mister	4190					• ▲▼	•		•		•						360 ☒	20-90
	4191					• ▲▼	•		•		•			•			320	20-90
	809					• ▲▼	•		•								360 ☒	20-240

• Suitable for the application

☐ Suitable only in area protected from wind

☒ Bridge emitter 340°-350°

L.P. = Also works well in low pressure above 1.5 atm.

▲ Upright position

▼ Downward position

▲▼ Both positions

SPECIAL FEATURES

Most of Ein Dor & Agridor emitters include special features:

INF

Integral Nozzle Filter:

Minimizes clogging caused by accumulating particles or dirt in the pipes beyond the filtration system, enables trouble free operation and easy field cleaning without the need to dismantle the nozzle.

NFR

Nozzle Flow Reducer:

Incorporated flow reducer with an integral nozzle filter enabling the use of larger water passage for low flow rates and ensuring an outstanding high clogging resistance.

LDE

Low Dripping Emitter:

A unique feature for "bridge" structure emitter, minimizing dripping caused by water hitting the "bridge".

NBE

No Bridge Emitter:

Ensures uninterrupted full circle irrigation and prevents dripping.

IP

Insect Protected:

Shuts off after operation thus preventing insects and dirt from penetrating the nozzle from the outside.

RJC

Removable Jet Converter:

Converts the water jet into large droplets spread over a small diameter. Can be removed as the plant grows.

SBO

Smooth Balance Operation Sprinkler:

Provides continuous double balanced jets of water which irrigates without damaging the soil and maintains stable assembly without vibrations.

DOUBLE JET SPRINKLER MODELS 920, 940, POP 940

920 & 940 Double Jet Sprinklers

For flow rates 180 - 300 l/h have excellent performance and a simple structure. They operate on a unique patented concept based on a turbine mechanism and irrigate with a smooth and balanced operation.

Features:

- * Wetting diameter of single emitter up to 16 meters.
- * Overlapping spacings up to 10x10m in open fields,
- * **SBO** - Smooth Balance Operation Sprinkler - Provides continuous double balanced jets of water which irrigate without damaging the soil and maintain stable assembly without vibrations.
- * **INF** - Integral Nozzle Filter - Minimizes clogging caused by accumulating particles or dirt in the pipes beyond the filtration system, enables trouble free operation and easy field cleaning without the need to dismantle the nozzle.
- * **IP** - Insect Protected - Shuts off after operation thus preventing insects and dirt from penetrating the nozzle from the outside.
- * Operating pressure 2.2-2.9 atm. at the sprinkler.
- * Available flow rates (at 2.0 atm.): 180, 200, 240, 300 l/h
- * Low cost and easy maintenance

Applications:

For overlapping irrigation in:

- * Field crops * Vegetables * Seedling * Nurseries * Flowers
- * Hothouses * Landscape gardening
- * For cooling & frost protection systems
- * For large trees, banana plantations etc.

Assembly:

Model 940 is 1/2" (in) threaded (or 3/4" (in) optional) , and can be mounted on any 1/2" or 3/4" (out) riser.

Model 920 is composed of two integrated parts: a sprinkler and a head 92080F or 92080M. The two parts are threaded and connected by a twist.

Head 92080F connects to 5/8 or 9/13 tube with collars and can be disconnected from the tube when needed.

Head 92080M connects directly to 5/8 tube permanently.

261F assembly composed of: 5/8 P.E. tube 1 meter with collars, 1 meter iron rod, head 92080f and accessories.

Pop 940 Sprinkler:

A low cost unique pop-up sprinkler constructed from the 940 sprinkler mounted on an aluminum riser mechanism which inserts into a 1/2" threaded riser.

- * Wetting diameter 14m
- * Operating pressure 2.2 - 3.0 atm. at the sprinkler
- * Raises 10 cm. up to 30 cm.

Applications:

- * Parks and home gardens to keep the sprinkler assembly out of view between plants or a few cm. above ground level
- * For protecting the 940 Sprinkler against destruction in Banana plantations etc.
- * Pop 940 was not designed to be threaded on, or to be completely covered by ground.



NOZZLE COLOR	NOZZLE SIZE (mm)	FLOW RATE L/H AT 2.0 ATM	MAX. WET. DIA. METER*	MAX. SPACINGS METER*	PRESSUR RANGE WITH IF FILTER ATM	PRESSUR RANGE WITHOUT IF FILTER	IF FILTER HEAD LOSS ATM.	HEAD FILTRATION (MESH)
Grey	1.9	180	14.0	7X7	2.2 - 2.7	2.1 - 2.6	0.10	60
Blue	2.0	200	14.5	7X7	2.3 - 2.8	2.1 - 2.6	0.15	60
Yellow	2.2	240	15.0	10X10	2.4 - 2.9	2.2 - 2.7	0.20	60
Red	2.4	300	16.0	10X10	2.6 - 3.1	2.2 - 2.7	0.33	40

At 2.5 atm — 70 cm height.



961 Single Jet Sprinkler

For flow rates of 120 - 160 l/h has a unique patented design, a turbine mechanism and a simple firm compact structure made entirely of durable plastic material.

Features:

- * wetting diameter of single emitter up to 12.5 meters.
- * Overlapping spacings up to 7 x 7 m.
- * **INF** - Integral Nozzle Filter
- * **IP** - Insect Protected
- * **NBE** - No Bridge Emitter
- * Simple compact structure — no springs, seals or metal parts.
- * Operating pressure 2.0-2.5 atm. at the sprinkler.
- * Available flow rates (at 2.0 atm.): 120, 160 l/h

Application:

For overlapping irrigation in:

- * Field crops * Vegetables * Nurseries * Flowers * Hothouses
- * Landscape gardening
- * For single emitter irrigation of large trees



NOZZLE COLOR	NOZZLE SIZE (mm)	FLOW RATE L / H AT 2.0 ATM	MAX. WET. DIAMETER *	MAX. SPACINGS METER *	HEAD FILTRATION (MESH)
Red	1.5	120	12.0	7X7	60
Blue	1.8	160	12.5	7X7	60

** At 2.0 atm — 70 cm high.



Part Circle Sprinkler Model 961-P

The 961-P Part circle sprinkler 120 l/h has an incredible simple structure, made entirely of durable plastic material without springs, metal parts or seals.

Features:

- * Adjustable arc to any sector from 90° up to 270°.
- * Wetting radius up to 7 meters
- * **INF** - Integral Nozzle Filter
- * **IP** - Insect Protected
- * Simple compact structure without springs, seals or metal parts.
- * Operating pressure 2.0-2.5 atm. at the sprinkler.
- * Available flow rate (at 2.0 atm.): 120 l/h

Applications:

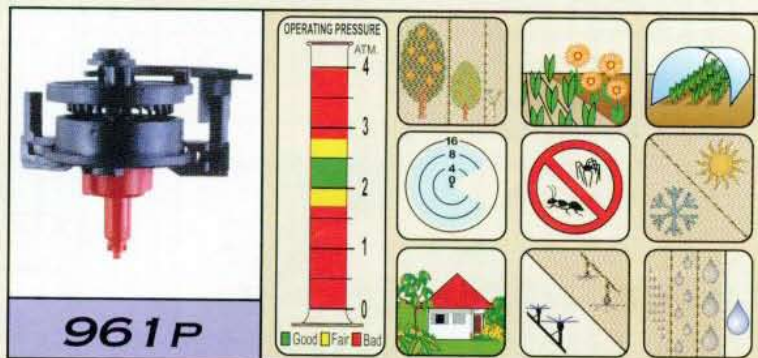
- * For edges of an area irrigated with 360° sprinklers. in open fields and in hothouses.
- * Home & landscape gardening.
- * Wide strip irrigation- by setting the sprinklers in overlapping spacings up to 8 x 8 meters on two lines on both sides of the strip.

Assembly:

961P sprinkler connects to assembly model 270 composed of 5/8 P.E. tube, iron rod and accessories.

961P sprinkler can be connected to 1/2" (out) riser by using nut-1/2f or to 3/4" (out) riser by using nut-3/4F

961P sprinkler can be connected to 1/2" (in) riser by using head-1/2-8 coupler.



SERIES 86X MINI-COMPACT "SUPER MINI SPRINKLER"

Series 86X Mini Compact

presents the most advanced mini sprinkler. Unique patented mechanism, firm construction without a bridge as well as many other special features enables excellent performance even in difficult conditions.

Series 86X includes models: 861, 862, 862r, 863. 863r and 866 to suit a wide range of applications.

Features:

- * Compact firm structure
- * Uniform water distribution
- * Self flushing during irrigation
- * Extra strong propulsion
- * **INF** - Integral Nozzle Filter
- * **IP** - Insect Protected
- * **NFR** - No Bridge Emitter
- * **RJC** - Removable Jet Converter (available in models 862R, 863R).
- * Wide range of color coded nozzles from 20 l/h up to 160 l/h

Model 861 Mini Compact

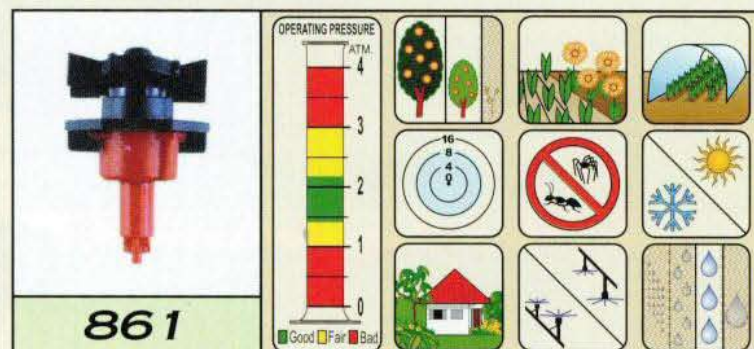
- * Large wetting diameter from 5.6 up to 9.0 meters
- * Recommended working pressures 1.4 - 2.2 atm.

Applications:

- * Mature trees, one emitter per tree or per two trees.
- * For overlapping irrigation at spacings up to 5 x 5 meters in areas protected from wind
- * Hothouses, seedling & germination
- * Landscape gardening
- * Cooling & frost protection systems.
- * Used also for upside down irrigation where a lower angle of stream is required.

NOZZLE COLOR	NOZZLE SIZE (mm)	FLOW RATE L/H AT 2.0 ATM	MAX. WETTING DIA. IN METER AT 2.0 ATM*				HEAD FILTRATION (MESH)
			861	862	863	866	
	0.9 (NFR)	20			3.8		100
	0.8	35	5.5	3.8		6.6	100
	0.9	40	5.5	4.6		6.6	100
	1.0	50	6.3	5.5		6.6	80
	1.1	60	6.9	5.7		7.9	80
	1.2	70	7.0	6.0		7.9	80
	1.3	90	7.0	6.5		7.9	80
	1.4	105	7.5	6.5		8.0	60
	1.5	120	8.1	6.5		8.0	60
	1.7	140	8.5	7.0		8.0	60
	1.8	160	9.0	7.2		8.6	60

* 861, 862, 863 — 25 cm height, 866 upside down position — 200 cm height.

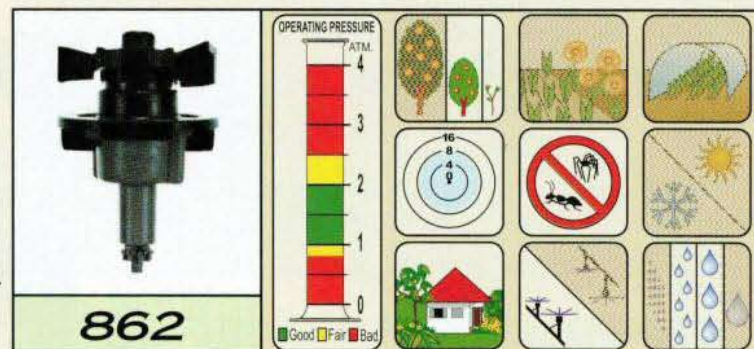


Model 862 & 862R Mini Compact

- * Wetting diameter from 0.50 meter up to 7.0 meters.
- * **RJC** - Removable Jet Converter: (in model 862R)
- * Recommended working pressure 1.0 atm - 2.0 atm.

Applications:

- * Trees with small or medium root zone
- * 862R for young plants up to mature tree (by removing the RJC).
- * Landscape and home gardening.

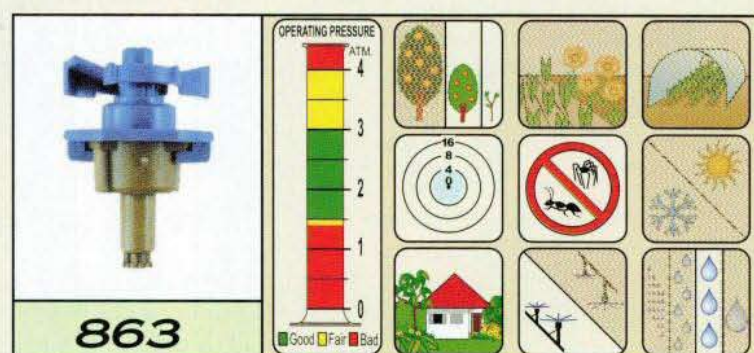


Model 863 & 863R Mini-Compact

- * Special model for very low flow rate of 20 l/h. with a 0.9mm nozzle.
- * **NFR** - Nozzle Flow Reducer
- * **RJC** - Removable Jet Converter: (in model 863R)
- * Recommended working pressures 1.5 - 3.0 atm.
- * Wetting diameter 0.5-3.8 meters (at 2.0 atm.).

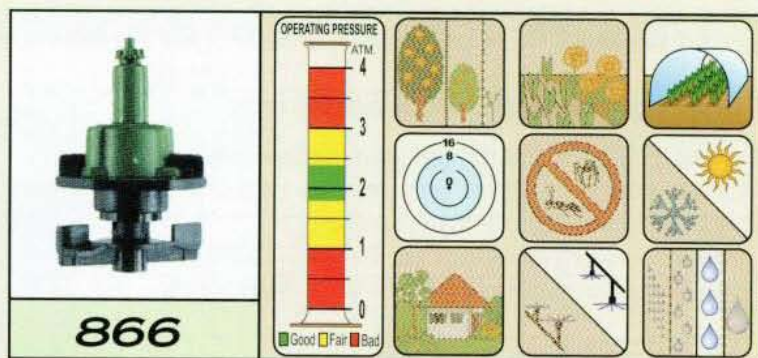
Applications:

- * For young trees or trees with small or medium root zone where very low flow rate is needed
- * 863R for young plants up to 2-3 years old or mature trees with small root zone, (by removing the RJC).
- * Landscape & home gardening.



Model 866 Mini Compact

- * Model for upside down irrigation.
- * **NBE** - No Bridge Emitter
- * Excellent uniform water distribution at upside down position in overlapping irrigation
- * Large wetting diameter from 6.6 up to 8.6 meters
- * Recommended working pressure 2.0 - 2.2 atm.
- * Overlapping spacings up to 5x5 meters.
- * Can be connected to 530 Non drip valve to prevent dripping when opening and closing the water.



Applications:

Overhead irrigation in:

- * Hothouses & nurseries, seedling, germination
- * Cooling and micro climate systems
- * Cooling chicken coops and animal houses.

Upside down assembly:

The 866 Mini sprinkler can be connected to the pipe with a plunger, with or without the non drip valve, or can be connected to a "cooling set model Z" suspended from the pipe, composed of 4/7 PVC tube stabilized with a weight.



530 NON DRIP-VALVE



The 530 Non-drip valve is a water pressure valve which opens as the pressure builds when opening the water, and closes as the pressure drops down when closing the water.

The 530 Non-drip prevents drainage of the system and dripping from the emitter when opening and closing the water. When used for pulse irrigation it enables the use of shorter and more efficient pulses by maintaining the irrigation system under low pressure between pulses.

Features:

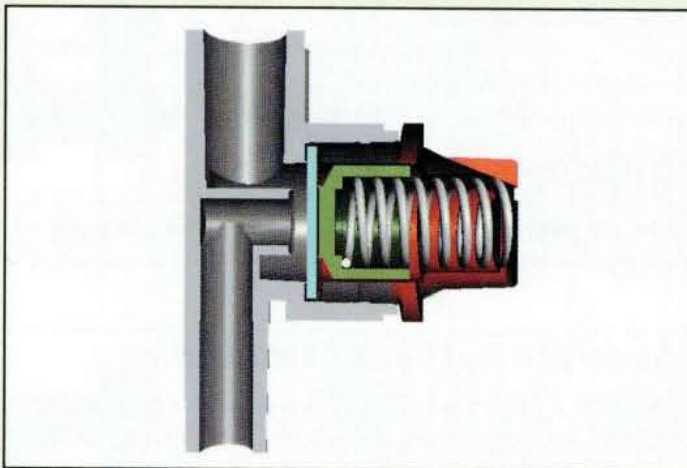
- * Wide water passage, low local head loss.
- * Stainless steel spring ensures long lasting uniform and accurate operation.
- * Can be connected to the emitter from both sides (male or female connection) by "press fit" design.
- * Clogging can be removed by rinsing with water from the other side
- * **INF** - Integral Nozzle Filter
- * **Model 530-L** opens at 1.0 atm. and closes at 0.4 atm.
- * **Model 530-h** opens at 1.5 atm. and closes at 0.7 atm.
- * Operating pressure: up to 4.0 atm.

Applications:

To prevent the emitter from dripping when opening and closing the water in:

- * Hothouse irrigation, mist, seedling, rooting and cooling systems
- * Chicken coops & animal house cooling systems
- * For pulse irrigation systems by maintaining the water at low pressure between pulses. It saves the time required for the pressure to rise after each pulse and enables shorter and more efficient pulses.
- * On slopes it prevents overflowing from lower-level emitter when closing the water.

CAT No.	OPENING PRESSURE ATM.	CLOSING PRESSURE ATM.
530-L	1.0 ± 0.2	0.4 ± 0.1
530-H	1.5 ± 0.2	0.7 ± 0.1



IP Insect Protected Mini Sprinklers:

Are high quality "bridge" constructed mini sprinklers which shut off after operation thus preventing insects and dirt from penetrating the nozzle from the outside.

IP Mini sprinklers, including models: 831, 841, 850, 850D, meet the requirements of a wide range of applications.

Model 831 Mini Sprinkler:

Features:

- * Large wetting diameter from 5.7 up to 10.4 meters.
- * **IP** - Shuts off after operation, insect protected.
- * Single jet swivel. Strong propulsion which increases whenever disturbed by any obstacle.
- * Uniform water distribution in overlapping irrigation at spacings up to 6x6 meters.
- * Operating pressure: in single emitter irrigation 1.0 - 2.0 atm. In overlapping irrigation 2.0 - 2.5 atm.

Applications:

- * Large trees, one emitter per tree or between two trees.
- * For overlapping irrigation in: hothouses, nurseries, flowers, vegetables etc. In areas without wind.
- * For cooling and frost protection systems.
- * Parks and home gardens.

Model 841 Mini Sprinkler:

Features:

- * Wetting diameter from 4.9 up to 8.0 meters
- * Uniform water distribution
- * **IP** - Insect Protected
- * Single jet swivel. Strong propulsion which increases whenever disturbed by any obstacle
- * Recommended operating pressure 1.0 - 2.5 atm.

Applications:

- * Orchards, citrus, kiwi, mango, avocado etc
- * For irrigation systems of low and regular operating pressures.
- * Parks and home gardens

Model 850 Part Circle Mini Sprinkler:

Irrigates in a unique dynamic operation carried out by a twisting swivel which creates fine drops without mist and uniform water distribution.

Model 850 irrigates a 200° sector area. By adding a deflector, model 850D irrigates a 180° sector area.

Features:

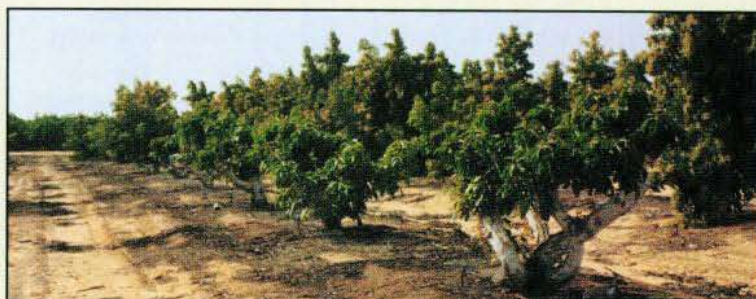
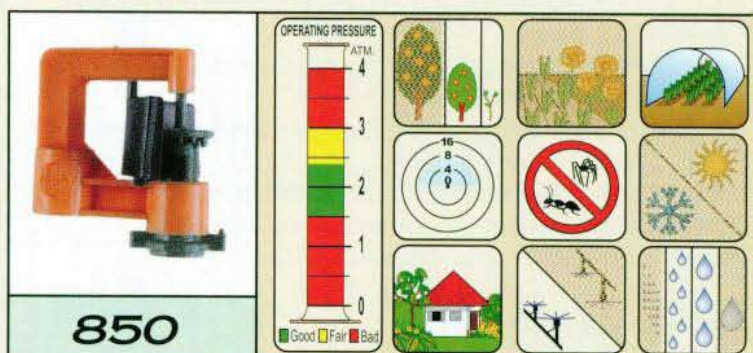
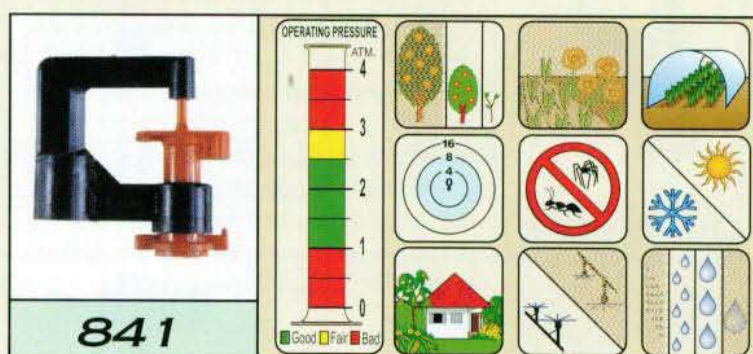
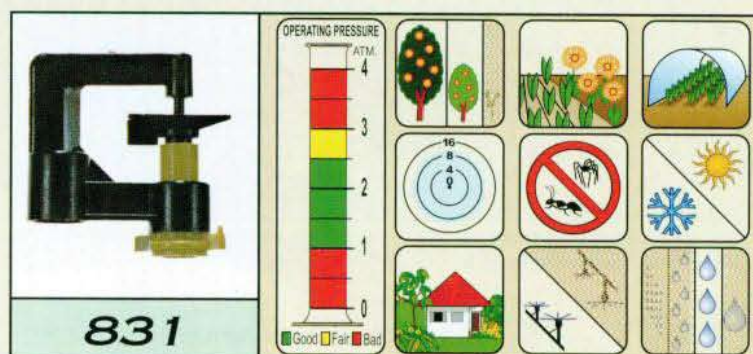
- * Dynamic operation, fine drops without mist.
- * uniform water distribution.
- * **IP** - Insect Protected Shuts off after operation
- * Wetting radius from 3.0 up to 3.5 meters
- * Recommend operating pressure 1.4 - 2.0 atm.
- * Available flow rate: 50, 70, 90 l/h

Applications:

- * Landscape and home gardening
- * Trees, on both sides of the tree to avoid wetting the trunk
- * Edge of an area irrigated with mini sprinklers
- * Strip irrigation by setting the mini sprinklers in overlapping spacings in two lines on both sides of the strip

NOZZLE COLOR	NOZZLE SIZE (mm)	FLOW RATE L/H AT 2.0 ATM	MAX. WETTING DIA. IN METER*			HEAD FILTRATION (MESH)
			831	841	850 (Radius)	
	0.8	35	5.7	4.9		100
	0.9	40	6.1	5.3		100
	1.0	50	6.8	6.0	3.0	80
	1.1	60	6.9	6.1		80
	1.2	70	8.0	6.8	3.5	80
	1.3	90	8.0	6.9	3.5	80
	1.4	105	8.5	7.1		60
	1.5	120	8.9	7.9		60
	1.7	140	9.8	7.9		60
	1.8	160	10.0	8.0		60
	2.0	200	10.2			60
	2.2	240	10.4			60

* At 2.0 atm — 25 cm high.





Series 80x "Bridge Design" Emitters:

Composed of a bridge, nozzle and spreader head or swivel. Wide range of color coded nozzles from 20 l/h up to 240 l/h. With an easy change of the spreader head or swivel, they can operate as models:

800 , 801 & 803 Mini sprinkler, 806 & 806S Sprayer, 809 Mister, or 807 Bubbler.

NOZZLE COLOR	NOZZLE SIZE (mm)	FLOW RATE L/H AT 2.0 ATM	MAX. WETTING DIA. IN METER*						HEAD FILTRATION (MESH)
			800	801	803	806	807	809	
	0.6	20		5.3			0.2	1.8	100
	0.8	35	5.0	5.7	6.9	2.6	0.2	2.3	100
	0.9	40	5.5	6.0	7.0	2.7	0.2	2.3	100
	1.0	50	6.4	6.3	7.2	2.9	0.3	2.4	80
	1.1	60	6.7	6.7	6.7	2.9	0.4	2.6	80
	1.2	70	7.0	7.5	7.8	3.0	0.5	3.1	80
	1.3	90	7.5	7.8	8.2	3.2	0.6	3.2	80
	1.4	105	7.7	8.0	8.6	3.5	0.8	3.4	60
	1.5	120	8.0	8.1	8.8	3.9	1.4	3.5	60
	1.7	140	8.5	8.8	9.2	4.3	1.6		60
	1.8	160	9.5	8.9	9.6	4.5	1.8		60
	2.0	200	10.0	10.0	10.1	5.3			60
	2.2	240	10.0	10.5	10.2	5.4			40

* At 2.0 atm 25 cm high, 803 upside down position 200 cm high, 809-100 cm high.

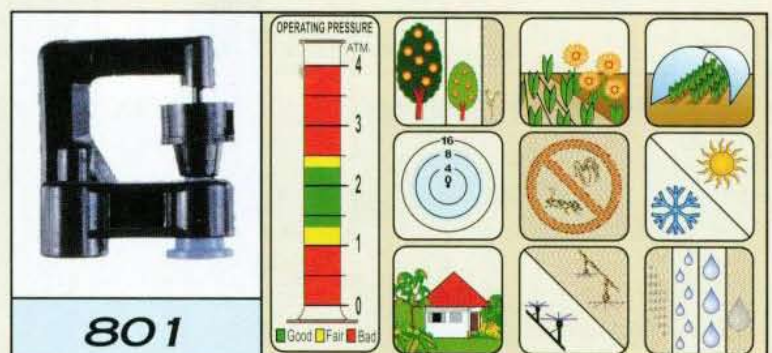
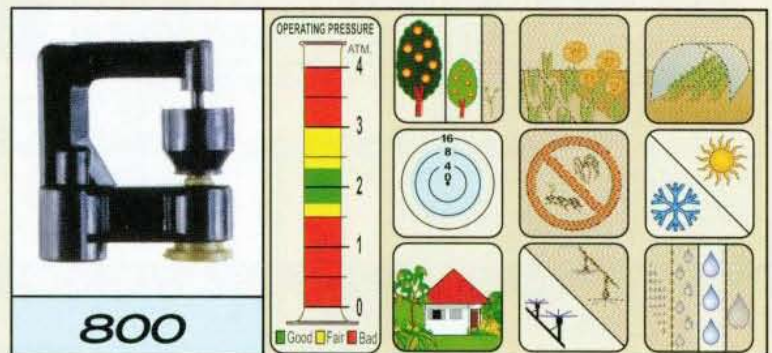
Model 800, 801 Mini sprinkler :

Features:

- * Large wetting diameter from 5.0 up to 10.5 meters
- * Strong propulsion.
- * **Model 800** optimal operating pressure 2.0 atm. for single emitter irrigation.
- * **Model 801** optimal operating pressure 1.4 atm. for single emitter irrigation, and 2.0 atm. in overlapping irrigation at spacings up to 5x5m.
- * Trunk protector can be added .to avoid wetting the tree trunk.

Applications:

- * Large trees with wide root-zone, or one emitter per two trees.
- * Cooling and frost protection systems.
- * Overlapping irrigation (models 801) in areas without wind.



Model 803 Mini Sprinkler:

Mini sprinkler for upside down irrigation.

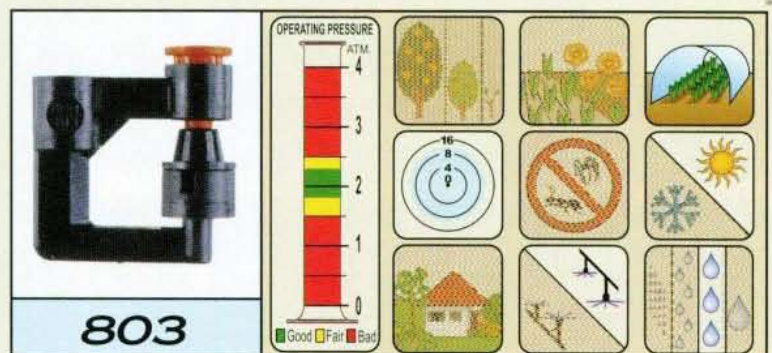
Features:

- * Large wetting diameter from 6.9 up to 10.2 meters
- * Overlapping spacings in upside down position up to 5 x 5 meters.
- * Operating pressures: 2.0 - 2.5 atm.

Applications:

Overhead irrigation in:

- * Hothouses & nurseries, seedling, germination
- * Cooling and micro climate systems



806 Sprayer

Features:

- * Fine droplets together with a small amount of mist.
- * Medium wetting diameter from 2.6 up to 5.4 meters.
- * Static operation.



806

806s Sprayer

Features:

- * Irrigates a very small area from 0.6 up to 1.0m.
- * Static operation



806s

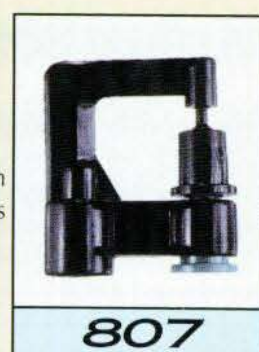
807 Bubbler

Features:

- * Dynamic operation
- * IP -Insect Protected
- * Irrigates a very small area from 0.2 up to 1,4m in large drops

Applications:

- * Pit irrigation
- * Palm trees
- * Bushes and young trees



807

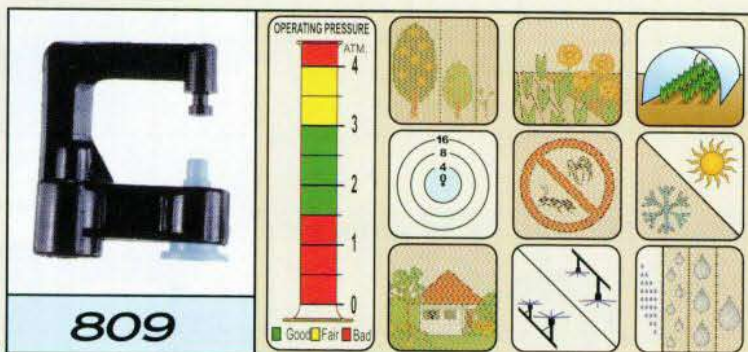
809 Mister:

Features:

- * Provides mist in very thin droplets, apr. 0.2mm at 3.0 atm.
- * The size of the droplets becomes smaller when raising the operating pressure.
- * Can be connected to Non drip device to eliminate dripping when opening and closing the water.

Applications:

- * Hothouses, rooting, germination and seedling systems
- * To maintain steady humidity
- * To reduce high temperature and create proper micro-climate conditions



809

500 EMITTER PRESSURE REGULATOR

The 500 Pressure Regulator:

Maintains the pressure at the emitter from rising, despite fluctuations or high pressure in the system.



500




Features:

- * **Model 500-14** regulated pressure 1.4 atm. used for flow rates from 35 up to 160 l/h.
- * **Model 500-20** regulated pressure 2.0 atm. used for flow rates from 35 up to 160 l/h.
- * **Model 500-20H** regulated pressure 2.0 atm. used for flow rates from 160 up to 300 l/h.
- * The same pressure regulator suits all emitters within the range of flow rates.
- * Operates at inlet pressure up to 4.5 atm..
- * Does not affect the uniform water distribution of the emitter attached.
- * Very low local head loss.
- * Wide water passage prevents clogging.
- * Made of tough durable plastic materials and stainless steel spring.
- * Modular, connects by "press-fit" design.

Applications:

- * In slopes and difficult topographic conditions
- * In systems with high water pressure it enables the use of smaller diameter pipes and longer laterals.



NOZZLE COLOR	NOZZLE SIZE (mm)	FLOW RATE L/H AT 2.0 ATM	HEAD FILTRATION (MESH)	WETTING AREA (METER)							
				4460	4461	4462	4463	4452	4454	4442*	4444**
	1.0	20	80			2.4	0.7			0.5X0.8 DIST. 1.5M	
	1.3	40	80	3.2	3.2	3.5	0.9	1.8 RADIUS	2.2 RADIUS	0.6X0.9 DIST. 2.4M	3.8X1.5 STRIP
	1.3	60	80	4.0	4.0	3.6	0.9	2.0			5.6X1.8 STRIP
	1.8	70	60	3.8	3.8	3.2	0.9	2.0 RADIUS	2.9 RADIUS	0.8X1.2 DIST. 2.8M	4.0X2.8 STRIP
	2.0	90	60	4.0	4.0	3.3	0.9	2.4 RADIUS		1.0X1.8 DIST. 3.2M	5.0X2.8 ELLIPTICAL
SPREADER HEAD											
IRRIGATED SECTION				 360°	 320° LDE	 360°	 360°	 180°	 90°	 TWIN ELLIPSE/ STRIP	 360° ELLIPSE
OPERATING PRESSURE ATM.				1.5-3.5	1.5-3.5	1.0-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5

At 2.0 atm 25cm height.

* Dist = Distance from center to center of 2 ellipses

** Strip = Strip irrigation by overlap.

Agridor Series 44XX:

Presents a new range of unique static sprayers of high technology design, superb quality and performance. includes sprayers with various water distribution patterns and wetting diameters. Adapts specific requirements in agricultural and landscape gardening irrigation.

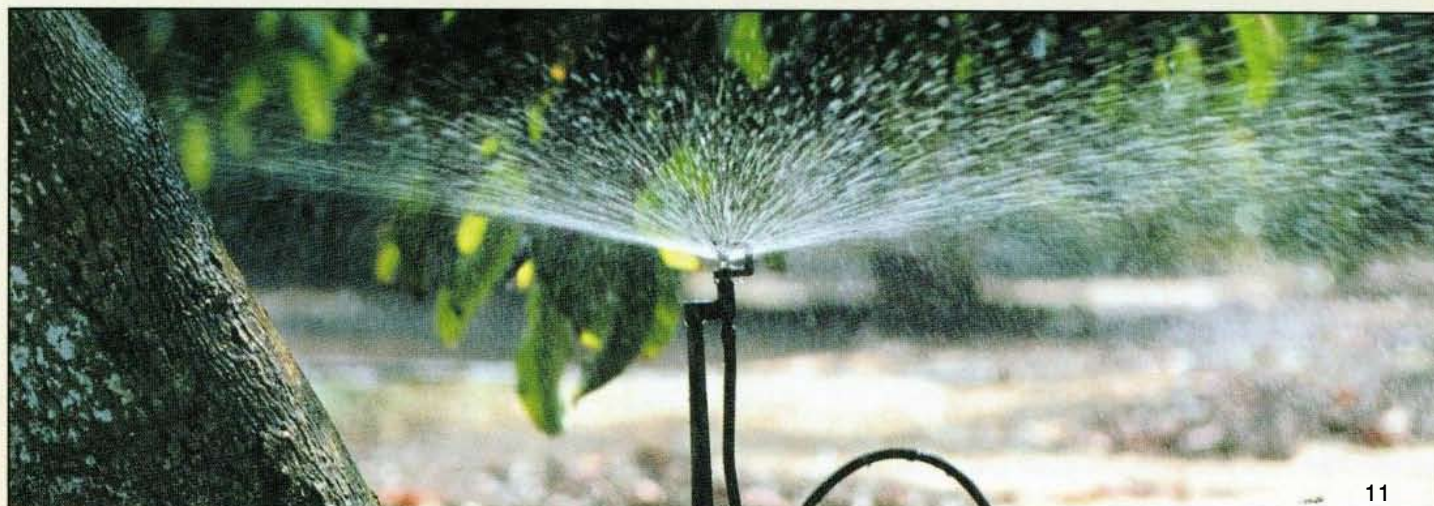
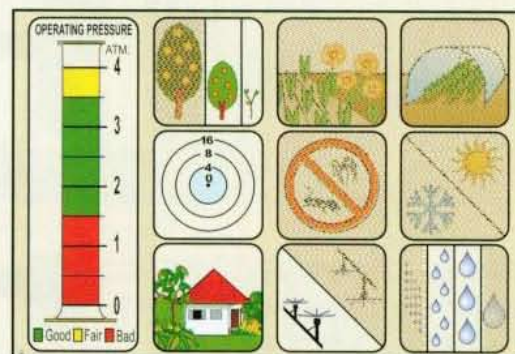
Series 44XX Super Sprayers are under advanced development of additional flow rates and spreader heads. Updated information is available in the last PC software version.

Features:

- * **NFR** - Nozzle Flow Reducer
- * Firm construction and static operation without moving parts ensures long term performance.
- * Irrigates with fine drops without mist just like dynamic emitters.
- * Operating pressure 1.5-3.5 atm. (22-35 psi).
- * Color coded nozzles for flow rates from 20 l/h up to 90 l/h.
- * Wide selection of color coded spreader heads for various irrigation patterns.

Applications:

- * For irrigation of: trees, narrow beds, strips, sector areas, potted plants, vines, bushes, small plants etc,
- * For landscape and home gardening.



Model 4460

Irrigates full circle in a wetting diameter up to 4.0 meters

**4460****Model 4452**

Irrigates 180° sector area with wetting radius from 1.8 up to 2.4 meters

**4452****Model 4461**

Irrigates 320° area in a wetting diameter up to 4.0 meter, maintains a dry area around the trunk of the tree.* Includes LDE a unique feature for "bridge" structure emitter, minimizing dripping caused by water hitting the "bridge".

**4461****Model 4454**

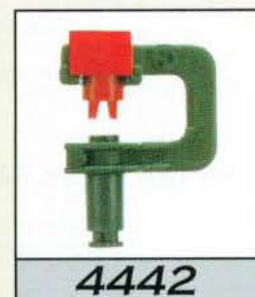
Irrigates 90° sector area with a wetting radius from 2.2 up to 2.9 meters

**4454****Model 4462**

Irrigates full circle with a wetting diameter from 2.4 up to 3.3 meters

**4462****Model 4442 Twin Sprayer**

Irrigates two small elliptical areas on both sides of the sprayer thus enabling the irrigation of two plants or vines with one sprayer with available flow rate from 10 l/h per each irrigated side. It can be spaced in overlapping achieving uniform water distribution in a narrow strip. The twin sprayer is suitable for upright or upside down assembly.

**4442****Model 4463**

Irrigates full circle with a very small wetting diameter from 0.7 up to 0.9 meters

**4463****Model 4444 Ellipse / Strip Sprayer**

Model 4444-40 l/h irrigates a narrow strip. Model 4444-70 l/h up to 90 l/h irrigates an elliptical area up to 5.0x2.8 meters.

**4444**

AGRIDOR 700 DYNAMIC SPRAYER

The 700 Dynamic Sprayer

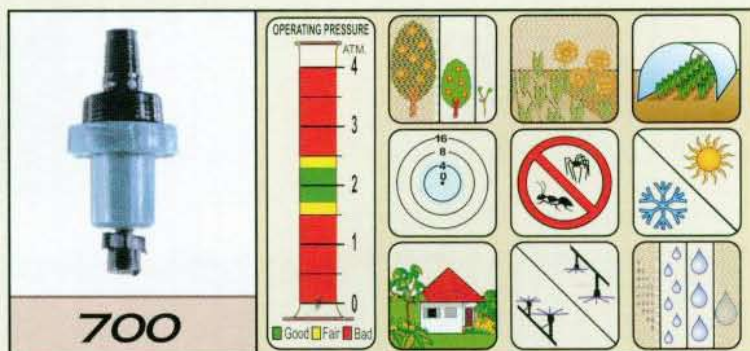
Constructed with a thin needle located inside the nozzle orifice, which vibrates when in operation and distributes fine droplets over a medium area.

Features:

- * **NBE** - No Bridge Emitter
- * Uniform water distribution with fine droplets.
- * **IP** - Insect Protected
- * Vibrating needle effects self cleaning and eliminates accumulations of deposits
- * Medium wetting diameter from 3.0 up to 5.5 meters
- * Operation at upside down position reduces the wetting diameter

Applications:

- * Trees with medium root-zone
- * Trees at all stages of growth by starting at upside down position and converting position when the tree grows
- * Home gardens and parks

**700**

NOZZLE COLOR	FLOW RATE L/H AT 2.0 ATM	MAX. WETTING DIAM. (METER) AT 2.0 ATM	HEAD FILTRATION (MESH)
Blue	40	3.0	100
Grey	60	4.0	80
Black	70	4.4	80
Green	90	4.6	80
Blue	105	5.0	60
Red	120	5.2	60
Brown	160	5.4	60

At 2.0 ATM, 25 cm High.

Agridor Mister 4191 & 4190:

Agridor misters maintain steady humidity, reduce temperatures and create proper micro-climate conditions.

The 530 Non Drip Valve can be attached to the mister to prevent dripping when opening and closing the water.

Features:

- * Firm construction and static operation
- * Provides mist in very tiny droplets (appr. 0.15 mm at 3.0 atm. operating pressure). The size of the droplets becomes smaller upon raising the water pressure.
- * Working pressure: 1.5 - 5.0 atm.
- * **INF** - Integral Nozzle Filter which minimizes clogging
- * **LDE** - Low Dripping Emitter: (model 4191)

Applications:

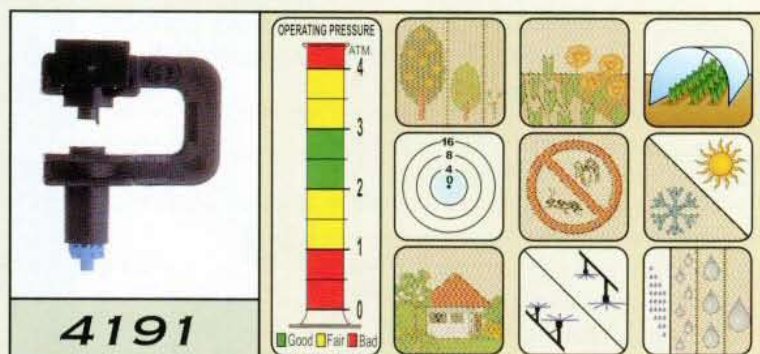
- * Maintains steady humidity.
- * Reduces high temperature and creates proper micro-climate conditions
- * For hothouses irrigation, seedling, germination and rooting.
- * For cooling systems in: hothouses, chicken coops, animal houses, etc.

NOZZLE (BRIDGE) MARKING*	NOZZLE SIZE (mm)	FLOW RATE L/H AT 2.0 ATM	HEAD FILTRATION (MESH)	WETTING AREA (METER)		
				4190	4191	4168
20	0.6	20	100	2.2	2.2	
35	0.8	35	100	2.5	2.5	3.2
50	1.0	50	80	2.8	2.8	4.1
70	1.2	70	80	3.0	3.0	5.3
90	1.3	90	80	3.2	3.2	6.3
160	1.8	160	60			8.5
120	2.0	180	60			10.0
SPREADER HEAD COLOR						
IRRIGATED SECTION				360°	320° LDE	360°
OPERATING PRESSURE ATM.				1.8-5.0	1.8-5.0	1.0-3.5

4190 / 4191 At 2.0 atm 200 cm height.

4168 At 2.0 atm 25 cm height.

All Nozzles (Bridge) are black. The flow rate marking is imprinted on the bridge.



4168 12 Jets Sprayer:

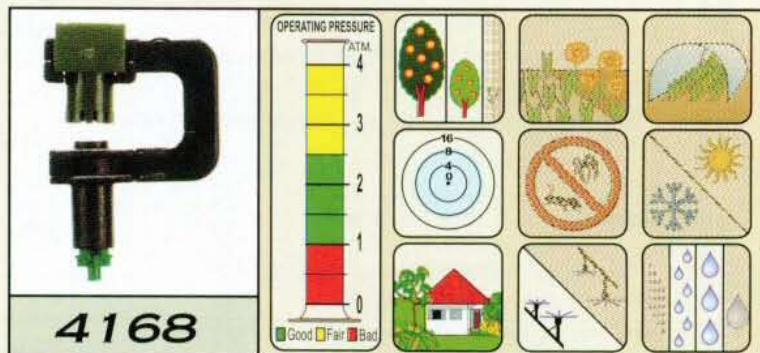
A static Sprayer, distributes the water with 12 jets over a large 360° area.

Features:

- * **INF** - Integral Nozzle Filter
- * Large wetting diameter

Applications:

- * Trees, orchards, parks, home gardens etc. where a large wetting diameter with a static sprayer is required.



The 560 Agridor Flow Regulator:

The 560 Agridor flow regulator provides a constant flow rate at a wide range of inlet pressures. It is self-cleaning, has a large water passage and an internal filter to protect against clogging. It can be connected to mini sprinkler models 861,862,862r,831,841 and to Agridor sprayers specially designed for use with the flow regulator.

Model 45XX is identical to model 44xx with NF Nozzle Filter replacing NFR Nozzle Flow Reducer

The Flow Regulator determines the flow rate, not the connected emitter which is always of a higher flow rate (see table).

For additional combinations, consult with the factory.

The 560 Flow regulator is under advanced development with additional flow rates. Updated information appears in the up-to-date PC software version.

Features:

- * Uniform flow rate regardless of inlet water pressure or topographical conditions
- * Self flushing during irrigation
- * Large water passage
- * Includes an integral filter
- * Operating pressure 1.5 - 4.0 atm.
- * Easy maintenance. Any clogging can be rinsed away with a water jet from the other side.
- * Model 560F operates with mini sprinkler models 861,862,862r and sprayer models 45xx 360°,180°, 90° etc.
- * Model 560M operates with "bridge" mini sprinkler models 841, 831.

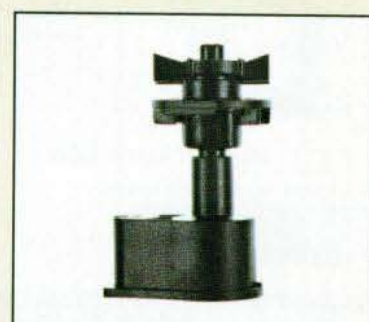
Applications:

- * Slopes and difficult topographic conditions.
- * In systems with fluctuating pressures.
- * In systems with longer laterals or smaller diameter pipes.

FLOW REGULATOR	560 - 020		560 - 025		560 - 040		560 - 050		MODEL
FLOW RATE	20 L / H		25 L / H		40 L / H		50 L / H		
EMITTER CONNECTED TO FLOW REGULATOR	MODEL	WET DIA. METER	MODEL	WET DIA. METER	MODEL	WET DIA. METER	MODEL	WET DIA. METER	
861	861 - 035	4.5	861 - 040	5.4	861 - 060	5.5	861 - 070	6.2	F
862	862 - 035	3.7	862 - 040	3.9	862 - 060	4.7	862 - 070	5.1	F
4460			4560 - 020	3.2	4560 - 040	3.2	4560 - 040	3.5	F
4461			4561 - 020	3.2	4561 - 040	3.2	4561 - 040	3.5	F
4462	4562 - 020	2.4	4562 - 020	3.5	4562 - 040	3.5	4562 - 040	3.5	F
4463	4563 - 020	0.7	4563 - 020	0.9	4563 - 040	0.9	4563 - 040	0.9	F
841	841 - 035	4.0	841 - 040	5.0	841 - 060	5.3	841 - 070	6.5	M
831	831 - 035	4.1	831 - 040	5.5	831 - 060	6.1	831 - 070	7.5	M

* 45XX is a special model of 44XX suited to the Flow Regulator.

* The table indicates only some of the emitters which can be flow regulated. For additional emitters, consult with the factory.



POT SPRAYER SYSTEM

Sprayer Irrigation for plants planted in large containers is based on a sprayer providing only 10 l/h for each container while irrigating the entire area of the container, and ensuring highly effective water and fertilizer use. The sprayer is mounted on an assembly composed of a 3/5 PVC tube at a low or higher height according to the required irrigated area. Two assemblies connect to one outlet by a dividing valve which can be closed when removing a container. The system can be flow regulated and can include a Non Drip Device.

Features:


































- * **NFR** - Nozzle Flow Reducer
- * Several models of sprayers with different water distribution patterns can be used in the system

Applications:

- * Potted plants planted.
- * Young plants
- * As a better substitute to drippers .
- * For specific systems of very low flow rates.
- * The system is under advanced development. Updated information appears in the last PC software version.



ACCESSORIES:

plun PLUNGER To connect Ein dor (m) components to P.E. pipe		92080m 920 HEAD (M) Integral head of 920 sprinkler for assembly 261m composed of 5/8 P.E. tube without collar		coll COLLAR To insert into 4/7 PVC tube in assembly: 670, 680, etc.	
plun-d DOUBLE PLUNGER To connect 4/7 PVC tube to P.E. pipe (in permanent connection of the assembly)		ph-6 COUPLER 6 Head for sets with 3/5 PVC tube and 6.0mm rod (for pot planted plants)		coll-12 COLLAR 12 To insert into 7/12 or 9/13 PVC tube, and into 12mm P.E. tube	
plun-m PLUNGER 800 To connect Ein dor (f) components to P.E. pipe. also to insert into 5/8 P.E. tube		head-1/2-8 THREADED HEAD 1/2" Threaded (out) head for assembly 280. Also for connecting (m) component to 1/2" (in) riser		conn-2m DOUBLE NIPPLE 2-way (out) connector for (f) components	
plun-12 PLUNGER 12 To connect 7/12 & 9/13 PVC TUBE or 12mm P.E. tube to P.E. pipe		nut-1/2f NUT- 1/2" (F) Nut 1/2" (in) threaded for Ein Dor (m) components		conn-2f CONNECTOR (F) 2-way (in) connector for (m) components	
plun-st STABLE PLUNGER To connect (m) components to P.E. pipe and stabilize it. Also coupler of assembly with 4.0 mm rod		nut-3/4f NUT - 3/4" (F) Nut 3/4" (in) threaded for Ein-Dor (m) components		t T CONNECTOR 3-way (IN) connector for (m) components	
plun-1/4 PLUNGER 1/4 1/4"w threaded plunger to connect (m) components to rigid PVC pipe		nut-1/2m NUT-1/2 (M) Nut 1/2" (in) threaded for Ein dor (f) components		dan-mf CONNECTOR DAN To adapt (m) emitters to "dan" stand	
plun-3/8p PLUNGER 3/8 3/8p threaded plunger to connect (m) components to rigid PVC pipe		nut-3/4m NUT-3/4 (M) Nut 3/4" (in) threaded for Ein dor (f) components		plug PLUG to plug plungers: plun, plun-1/4, plun-3/8p, plun-m11	
plun-m11 PLUNGER m11 11 mm Threaded plunger to connect (m) components to rigid PVC pipe		pv DIVIDING VALVE Shut-off valve to connect two sets of 3/5 PVC tube to one plunger		plug-m PLUG M to plug plunger plun-m	
head-8 COUPLER Head 670 assembly for (m) components		pv-20 DIVIDING VALVE Shut-off valve with NFR nozzle flow reducer to connect two sets of 3/5 PVC tube to one plunger		plug-4 to seal small hole plug-8 to seal medium hole plug-10 to seal large hole	
head-8s COUPLER SUPER Head for 270 assembly (with irod rod)				key KEY All purpose key for dismantle and assemble Ein dor components	
92080f 920 HEAD (F) Integral head of 920 sprinkler for assembly 261f composed of 5/8 P.E. tube with collar (plun-m)		3/5 PVC TUBE 3/5-roll in rolls of 100m		punc PUNCTURER Tool to punch 3.5mm hole in P.E.pipe and insert a plunger into the hole	
4/7 PVC TUBE 4/7-roll in roll of 100m 4/7-060 60cm with collars 4/7-100 100cm with collars 4/7-060d 60 cm with coll and plun-d 4/7-100d 100 cm with coll and plun-d 4/7-030n 30 cm with coll and plun 4/7-060n 60 cm with coll and plun 4/7-030nd 30 cm with plun and plun-d 4/7-060nd 60 cm with plun and plun-d 4/7-030nm 30 cm with coll, plun and weight		5/8 P.E. TUBE 5/8-roll in roll of 500m 5/8-100 100 cm with collars (plun-m) 5/8-100d 100cm with plun-m and plun-d		inse INSERTER Tool to insert collars into PVC or P.E. tube and to insert plun-m into P.E.pipe	
		adap-4.0 Fitting 4.0-8.0mm adap-4.5 Fitting 4,5-8,0mm adap-5.8 Fitting 5.8-8.0mm adap-6.0 Fitting 6.0-8.0mm		wedg-25 WEDGE 25 Plastic wedge 25cm long wedg-35 WEDGE 35 Plastic wedge 35 cm long iron-100 IRON ROD 5.8mm galvanized iron rod 1.m. long	

ASSEMBLIES :

670 Assembly with wedge 35 cm. long for (m)emitters

261f Assembly with Iron rod 1m, long for 920 sprinkler

270 Assembly with Iron rod 1m. long for (m) components

zl866-030 inverted set of 4/7-030n PVC tube with 530-l non drip valve

zl866-030d inverted set of 4/7-030d PVCtube with 530-l non drip valve
* all sets include "weight"

zl4191-030 Inverted set of 4/7-030 PVC tube with 530-l non drip valve

zl4191-30d Inverted set of 4/7-030d PVC tube with 530-l non drip valve
* all sets include "ogdan"



NOZZLE COLOR CODE:

L/H 20	35	40	50	60	70	90	105	120	140	160	180	200	240	300	
GH 5	9	10	13	15	18	24	27	32	36	42	47	52	65	79	



13 Nahal Snir St., North industrial zone, Yavne, Israel 81224
 Tel: +972-8-9328010 Fax: +972-8-9328020
www.tavlit.co.il export@tavlit.co.il