

Series 86X Mini Compact- No Bridge Mini Sprinklers

These emitters are the most advanced and time proven mini sprinklers with unique patented mechanism, firm construction without a bridge for even distribution and excellent performance even in difficult conditions.

The 86X series includes the following models:

- **Model 861**-Large wetting diameter. Can also be used in inverted position.
- **Model 862** Medium wetting diameter, Optional RJC removable Jet converter to reduce the wetting diameter for young plants /trees.
- **Model 863**- Small wetting diameter with low flow rates, from 20 l/h (0.088gpm) and large droplets
Optional RJC – removable Jet converter to reduce the wetting diameter for young plants/trees
- **Model 866- Flat angle with** Large wetting diameter for inverted position.

Features:

- Unique patented mechanism with strong propulsion-Smooth operation even in harsh conditions.
- Firm construction without a bridge-Uniform water distribution.
- Anti-insect design –Swivel seals the nozzle once the water is shut off.
- Integral nozzle filter – Protects the nozzle from debris in the water.
- Special engineering raw materials for long life and durability.
- Large drops for added wind resistance.
- **The 86X series can be supplied as pressure compensated emitters**

Technical Specifications:

- Wide range of nozzles to meet all applications
20-160 liters per hour (0.088-0.704 gpm).
- Nominal Flow rate at 2.0 bar (29 psi).
- Working pressure maximum range:1-3 bar (14.5-43.5).
- Optimal working pressure range
1.0-2.2 bar (14.5-32 psi).
- Wetting diameter: 5.5-9 m (18-30Ft).
- Recommended Filtration:
100 mesh for flow rates up to 40 lph,(0.176 gpm)
80 mesh for flows up to 90 lph,(0.396 gpm)
60 mesh for flows up to 160 lph,(0.074 gpm)

Model 861-Large Wetting Diameter



Applications:

- The product is designed for irrigation of mature trees with large root zone.
- Product can be used for low precipitation rate and high uniformity overlapping irrigation in greenhouses.
- Product can be used for upside down irrigation in greenhouses and nurseries in places where a lower angle of throw is required
- Applicable for landscape, cooling and frost protection systems.

Technical Specifications:

- Wide range of nozzles to meet all applications
 - 35-160 liters per hour (0.154-0.704 gpm).
- Nominal Flow rate at 2.0 bar (29 psi).
- Working pressure maximum range
 - 1.4-2.2bar (20-32 psi).
- Large wetting diameter: 5.5-9 m,(18-30Ft).
- Recommended overlapping spacing in wind protected areas:
Upright position up to 6X6 m(20x20Ft)
Inverted
Rectangular overlapping up to 5x5 meters (16X16 Ft).
One row of emitters, up to 6.0 m(20 Ft) hot house width
Two rows of emitters, up to 12 m (39 Ft) hot house width
- **The 86X series can be supplied as pressure compensated emitters**

862 Mini Compact- Small /Medium wetting Diameter



Applications

- The product is designed for irrigation of young or mature trees with medium or small root zone.
- Product can be used for low precipitation rate and high uniformity overlapping irrigation in greenhouses.
- Applicable for landscape and home gardening.

Special Features:

- The 862 mini-sprinkler can be supplied with RCJ (Removable Jet Converter)- a device that converts the water jet into large droplets spread evenly on a small diameter and is intended for irrigation of young plantation.
- This device can be removed easily once the tree grows and a larger wetting diameter is required.

Technical Specifications:

- Wide range of nozzles to meet all applications
 - 35-160 liters per hour (0.154-0.704 gpm gpm).
- Nominal Flow rate at 2.0 bar (29 psi).
- Working pressure maximum range
 - 1.0 2.0-bar (14.5-29 psi).
- Large/Medium wetting diameter 3.8-7.2 m,(12-24 Ft).
- Recommended overlapping spacing up to 4x4 m (13x13 Ft) in wind protected areas.
- **862 series can be supplied as PC (pressure compensated) model.**

863 Mini Compact- Small wetting diameter

Applications

- The product is designed for irrigation of young or mature trees with small root zone.
- Applicable for landscape and home gardening

Special Features:

- The product combines very low flow rates, from 20 l/h (0.088gpm) with relatively large droplets.
- The 863 mini-sprinkler can be supplied with **RCJ** (Removable Jet Converter), a device that converts the water jet into large droplets spread evenly on a small diameter and is intended for irrigation of young plantation.
 - This device can be removed easily once the tree grows and a larger wetting diameter is required.
- Product nozzle is equipped with **NFR** (nozzle flow reducer), enabling low flow with a relatively large nozzle that prevents clogging.

Technical Specifications:

- Product can be supplied with 20,40,50 lph,(0.088,0.176,0.264gpm), nozzle..
- Nominal Flow rate at 2.0 bar (29 psi).
- Working pressure maximum range
 - 1.5-3 bar (22-43 psi).
- Medium wetting diameter 3.8m,(12Ft).
- **863 series can be supplied as PC (pressure compensated) emitter.**



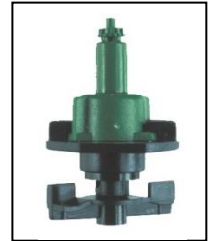
866 Mini Compact- Large wetting diameter for inverted position

Applications:

- The product is designed for overlapping irrigation at upside down position
- The product combines low precipitation rate and high uniformity overlapping irrigation.
- Product can be used in greenhouses, and nurseries for germination and seedling.
- Product can be used for cooling and micro climate systems
 - In Chicken coops, animal houses and greenhouses.

Technical Specifications:

- Wide range of nozzles to meet all applications
 - 35-160 liters per hour (0.154-0.704 gpm).
- Nominal Flow rate at 2.0 bar (29 psi).
- Recommended working pressure range
 - 2- 2.2-bar (29-32 psi).
- Large wetting diameter up to 9.0 m (30 Ft).
- Recommended overlapping spacing, (inverted).
 - Rectangular Overlapping: spacing up to 6X6 m (20X20 Ft)
 - Single row up to 6.5 m (21 Ft) hothouse width.
 - Two rows up to 12 m (39 Ft) hothouse width.



Technical Data

Nozzle Diameter		Flow Rate		86X Wetting diameter at 2 Bar (29 psi)							
				861		862		863		866	
mm	inch	lph	gpm	m	Ft	m	Ft	m	Ft	m	Ft
0.9*	0.031*	20	0.088					3.8	12		
0.8	0.035	35	0.154	5.5	18	3.8	12			5.5	18
0.9	0.039	40	0.176	5.5	18	4.6	15	4.6	15	5.5	18
1.0	0.043	50	0.22	6.3	21	5.5	18			6.3	21
1.2*	0.050*	50	0.22					5.0	18		
1.1	0.047	60	0.264	6.9	23	5.7	19			6.9	23
1.2	0.050	70	0.308	7.0	23	6.0	20			7.0	23
1.3	0.055	90	0.396	7.0	23	6.5	21			7.0	23
1.4	0.058	105	0.462	7.5	25	6.5	21			7.5	25
1.5	0.066	120	0.528	8.1	27	6.5	21			8.1	27
1.7	0.070	140	0.616	8.5	28	7.0	23			8.5	28
1.8	0.071	160	0.704	9.0	30	7.2	24			9.0	30

*with NFR

530 Non Drip Valve

The **530 NDV** is a water pressure valve that opens only when the water opens and pressure reaches the preset pressure and closes when the water is closed and pressure drops.

Applications:

- Prevents drainage of the pipes and dripping from the emitters when opening and closing the water system.
 - Used in hot houses and nurseries irrigation, misting and seedlings and rooting.
 - When the area is sloped the **NDV** prevents overflowing from the emitters in the lower end of the field when closing the water.
 - Chicken coops and animal houses cooling systems.
 - Used in pulse irrigation systems
 - The **NDV** guarantees that the water pipes are kept full and therefore water are not wasted and cycles can be shorter.

Features:

- Wide water passage, low 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).
- Can be connected to all mini sprinklers
- 4 Models are available:

Model	Opening pressure		Closing pressure	
	bar	psi	bar	psi
530-L	1.0+- 0.1	14.5+-1.45	0.4+-0.1	5.8+-1.45
530-H	1.5+- 0.2	21.7+-2.9	0.7+-0.1	10.1+-1.45
530-X	2.5+- 0.2	36.2+-2.9	1.5+-0.1	21.7+-1.45
530-Y	3.5+- 0.2	50.7+-2.9	2.5+-0.1	36.2+-1.45