

861 Series Mini Compact Micro Sprinkler

Micro Sprinkler for Greenhouses , Nurseries and Orchards



Modular Components with a Large Selection of nozzles

The 861 mini compact micro sprinkler presents an advanced and economical solution for orchard irrigation under or between tree canopies by utilizing a simple drive mechanism to achieve stronger spinner propulsion at lower pressures. It has an outstanding water pattern and offers excellent performance with uniform water distribution.

Features

- Unique bridgeless design for a complete 360-degree pattern and interchangeable, modular components with a large selection of nozzles
- Pop-up mechanism protects the micro sprinkler nozzle and spinner from insects; the spinner closes downwards after operation and prevents dirt and insects from entering the sprinkler

Applications

- Used in orchard, greenhouses and nurseries
- Can be used for frost protection and cooling

Benefits

- Small backup filter ensures extra protection and serves as a secondary nozzle, keeping the droplet size even and providing excellent uniformity



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Performance and Technical Data

- Flow rate: 5 GPH - 42 GPH (20 L/h - 160 L/h)
- Diameter of coverage: 10' - 28' (3.0 m - 8.5 m)
- Operating pressure: 15 - 30 PSI (1.0 - 2.0 BAR)
- Pattern: 360°
- Trajectory angle: Approximately 12°
- Droplet size: medium
- Filtration requirements: minimum of 120 mesh (130 microns), depending on water quality and concentration of dirt particles
- Material: polyacetal



Flow rate & diameter

Model	52-861-09	52-861-13	52-861-15	52-861-18	52-861-24	52-861-32	52-861-42
Nozzle color	Lt. blue	Violet	Gray	Black	Green	Red	Brown
Nozzle size (in)	.031	.039	.043	.047	.051	.059	.071
Nominal flow at 29.4 PSI (2 BAR)							
Flow rates (GPH)	9	13	15	18	24	32	42
Wetting diameter (ft)	15	20	22	23	24	26	28

Performance & technical at 6' (1.8 m) above the ground

Nozzle color	Lt. blue	Violet	Gray	Black	Green	Red	Brown
Performance rate 15 PSI (1 BAR)							
Flow rates (GPH)	6.7	9.6	11.5	13.4	17.3	23.0	30.7
Wetting diameter (ft)	10	14	16	17	18	21	23
Performance rate 20 PSI (1.4 BAR)							
Flow rates (GPH)	7.8	11.1	13.3	15.5	20.0	31.0	35.5
Wetting diameter (ft)	12	16	18	20	21	23	25
Performance at 25 PSI (1.7 BAR)							
Flow rates (GPH)	8.7	12.4	14.9	17.4	22.3	29.7	39.7
Wetting diameter (ft)	13	17	19	21	21	25	27
Performance at 30 PSI (2.1 BAR)							
Flow rates (GPH)	9.5	13.6	16.3	19.0	24.4	32.6	43.4
Wetting diameter (ft)	15	20	22	23	24	26	28
Rectangular spacing (ft x ft)	12 x 10	14 x 12	14 x 12	14 x 12	16 x 14	16 x 14	16 x 14
Application rate (in/h)	0.12	0.13	0.15	0.18	0.17	0.23	0.31

How to specify

Model	Description
52-861-xx	Mini-compact micro sprinkler head only
52-861-xx-0	Mini-compact micro sprinkler with 1/2" FNPT base
52-861-xx-24	Mini-compact micro sprinkler assembly with 24" micro tubing, barb and 13" stake
52-861-xx-36	Mini-compact micro sprinkler assembly with 36" micro tubing, barb and 13" stake
50-430-0	13" press fit stake
50-156-24	24" micro tubing assembly
50-156-36	36" micro tubing assembly
52-822-0	1/2" FNPT base

Interchangeable Accessories

The 52-861 has a range of accessories for a complete assembly that includes 1/2" male or female bases, 10-32 threads, 24" or 36" of 1/4" micro tubing w/.160" ID x .270" OD, a 13" plastic stake, and 24" or 36" metal stakes.

Packaging Information

Model	Description	Pack Qty	Box Qty	Box Size	Box Weight
52-861-xx	Mini-compact micro sprinkler head only	100	500	15 x 8 3/8" x 7 5/8"	5 lbs.
52-861-xx-0	Mini-compact micro sprinkler with 1/2" female base	100	500	20" x 7" x 10"	14 lbs.
52-861-xx-24	Complete assembly with 24" (60 cm) micro tubing, barb & 13" stake	1	150	20" x 9" x 11"	18 lbs.
52-861-xx-36	Complete assembly with 36" (90 cm) micro tubing, barb & 13" stake	1	150	21" x 12" x 11"	22 lbs.