

866 Series Bridgeless Micro Sprinkler

Micro Sprinkler for Greenhouses , Nurseries and Tunnels



Modular Design with a Wide Range of Components

The 866 bridgeless micro sprinkler is designed for overhead irrigation in greenhouses and nurseries. It offers a cost-effective solution for irrigation of benches and pots without dripping. The micro sprinkler's simple drive mechanism achieves a strong spinner propulsion at lower pressures, supporting better uniformity in a wide range of pressures.

Features

- Unique bridgeless design eliminates dry spots through a complete 360°-degree pattern
- Eight different color-coded nozzles for easy identification and a wide range of flow rates
- Modular design allows for various interchangeable components
- Anti-leak device prevents dripping in an inverted position
- Resistant to chemicals and fertilizers commonly used in agriculture

Applications

- Used for overhead irrigation and cooling in greenhouses, tunnels and nurseries

Benefits

- Maintains constant cooling in greenhouses and tunnels
- Offers a wide range of flow rates with a low precipitation rate and even distribution accuracy
- Available with press-fit connections for easy maintenance
- Small backup filter ensures extra protection and serves as a secondary nozzle, keeping the droplet size even for water uniformity



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Performance and Technical Data

- Flow rate: 9 GPH - 42 GPH (35 l/h - 160 l/h)
- Diameter of coverage: 18' - 27' (5.5 m - 8.2 m)
- Operating pressure: 15 - 35 PSI (1.0 - 2.4 BAR)
- Nominal operating pressure: 29.4 PSI (2 BAR)
- Pattern: complete 360° without a bridge
- Trajectory angle: Flat
- Filtration requirements: minimum of 120 mesh (130 microns), depending on water quality and concentration of dirt particles
- Material: polyacetal



Flow rate & diameter								
Model	52-866-09	52-866-10	52-866-13	52-866-15	52-866-18	52-866-24	52-866-32	52-038-42
Nozzle color	Lt. Blue	Silver	Violet	Gray	Black	Green	Red	Brown
Nozzle size (in)	.031	.035	.039	.043	.047	.051	.059	.071
Nozzle size (mm)	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.8
Nominal flow rate at 29.4 PSI (2 BAR)								
Flow rates (GPH)	9	10	13	15	18	24	32	42
Flow rates (L/H)	35	40	50	60	70	90	120	160
Wetting diameter (ft)	21	21	21.5	25	26	26	26	28
Wetting diameter (m)	6.5	6.5	6.6	7.8	7.9	7.9	8	8.6

Performance at 6' (1.8 m) height above the benches								
Nozzle color	Lt. Blue	Silver	Violet	Gray	Black	Green	Red	Brown
Performance at 20 PSI (1.4 BAR)								
Flow rates (GPH)	7.8	8.9	11.1	13.3	15.5	20.0	26.6	35.5
Wetting diameter (ft)	15	15	16	20	21	21	22	23
Performance at 25 PSI (1.7 BAR)								
Flow rates (GPH)	8.7	9.9	12.4	14.9	17.4	22.3	29.7	39.7
Wetting diameter (ft)	18	18	19	21	23	23	24	26
Performance at 30 PSI (2.1 BAR)								
Flow rates (GPH)	9.5	10.9	13.6	15.3	18.3	24.4	32.6	42.4
Wetting diameter (ft)	21	21	21	25	26	26	26	28
Performance at 35 PSI (2.4 BAR)								
Flow rates (GPH)	10.3	11.7	14.7	17.6	20.5	26.4	35.2	46.9
Wetting diameter (ft)	21	21	21	25	26	26	26	29

How to specify

Model	Description
52-866-xx	Micro sprinkler head only
52-866-xx-0	Micro sprinkler on 1/2" FNPT base
52-866-xx-12	Micro sprinkler assembly with 12" (30 cm) micro tubing, antileak device, .270" OD barb and weight
52-866-xx-24	Micro sprinkler assembly with 24" (60 cm) micro tubing, antileak device, .270" OD barb and weight
52-866-xx-36	Micro sprinkler assembly with 36" (90 cm) micro tubing, antileak device, .270" OD barb and weight
52-530-05	Antileak device (low pressure)
52-530-10	Antileak device (high pressure)
50-255-xx	Micro tubing assembly with weight
52-822-0	1/2" FNPT base

Interchangeable Accessories

The 52-866 has a range of accessories for a complete assembly that includes 1/2" male or female bases, press-fit connections, 10-32 threads, 1/4" barbs, and .160" ID x .270" micro tubing with a 6" weight and antileak assembly in 1, 2, 3, and 4 foot lengths.

Packaging Information

Model	Description	Pack Qty	Box Qty	Box Size	Box Weight
52-866-xx	Micro sprinkler head only	100	500	15 x 8 3/8" x 7 5/8"	5 lbs. (2.3 kg)
52-866-xx-0	Micro Sprinkler with 1/2" female base	100	500	20" x 7" x 10"	15 lbs. (6.7 kg)
52-866-xx-12	Complete assembly w/ 1/4" barb, 12" (30 cm) of micro tubing, antileak device & weight	1	150	20" x 7" x 10"	16 lbs. (7.3 kg)
52-866-xx-24	Complete assembly w/ 1/4" barb, 24" (60 cm) of micro tubing, antileak device & weight	1	150	20" x 9" x 11"	19 lbs (8.6 kg)
52-866-xx-36	Complete assembly w/ 1/4" barb, 36" (90 cm) of micro tubing, antileak device & weight	1	150	21" x 12" x 11"	23 lbs. (10.4 kg)