

# MINI-COMPACT MICRO SPRINKLER SERIES 861 MODELS 52-861-XX & 52-863-05

# TECHNICAL DATA

The Mini-compact micro sprinklers present an advanced concept in micro irrigation systems. The Mini-compact micro sprinklers unique drive mechanism achieves strong spinner propulsion at lower pressure. A small backup filter ensures extra protection, and also serves as a secondary nozzle, keeping the droplet size even and providing excellent distribution uniformity. Mini-compact micro sprinklers use interchangeable components with a large selection of nozzles suitable for applications in the irrigation of seedlings, young saplings and mature trees.

## Applications:

- Use in orchards, greenhouses and nurseries
- Can be used for frost protection and cooling

## Features:

- Excellent performance with uniform water distribution
- Large water passage
- Head closes downwards after operation to prevent dirt and insects from entering the sprinkler (insect proof)
- Built-in filter
- Trouble free operation even at low pressure
- Strong spinner propulsion at low pressure
- Frame construction without a bridge allows a complete 360° circle
- Available on 1/2" FNPT, 10/32 thread or completely assembled on 13" spike with 24", 36" or 48" .160 ID x .270 OD micro tube
- Made of durable materials, ensuring resistance to most chemicals and fertilizers
- The micro sprinkler has a small backup filter for protection



## Ordering Information:

Model	Description
52-861-xx-0	Mini Compact sprinkler on 1/2" FNPT base
52-861-xx-24	Mini Compact sprinkler assembly with 24" micro tubing, .270 OD barb and weight
52-861-xx-36	Mini Compact sprinkler assembly with 36" micro tubing, .270 OD barb and weight
50-430-0	13" Press fit stake
50-156-24	24" Micro tube assembly
50-156-36	36" Micro tube assembly
52-882-0	1/2" FNPT base

## Performance and Technical Data:

- Material: Polyacetal
- Flow Rates from 5 GPH to 42 GPH (20 l/h to 160 l/h)
- Diameter of Coverage: 10' to 28' (3.0 m to 8.5 m)
- Operating Pressure: 15 to 30 PSI (1 to 2.0 BAR)
- Pattern: 360°
- Trajectory Angle: Approximately 12°
- Droplet Size: Medium
- Filter Requirement: Minimum of 120 Mesh (130 micron)

FLOW RATE AND DIAMETER									
Model	52-863-05	52-861-09	52-861-10	52-861-13	52-861-15	52-861-18	52-861-24	52-861-32	52-861-42
Nozzle Color	Olive	Lt. Blue	Silver Blue	Violet	Gray	Black	Green	Red	Brown
Nozzle size	.024"	.031"	.035"	.039"	.043"	.047"	.051"	.059"	.071"
NOMINAL FLOW RATE AT 29.4 PSI (2 BAR)									
Flow rates (GPH)	5	9	10	13	15	18	24	32	42
Wetting diameter (feet)	10	15	18	20	22	23	24	26	28
PERFORMANCE AND TECHNICAL DATA at 6' (1.8m) above the ground									
PERFORMANCE AT 15 PSI (1 BAR)									
Flow rates (GPH)	n/a	6.7	7.7	9.6	11.5	13.4	17.3	23.0	30.7
Wetting diameter (feet)	n/a	10	12	14	16	17	18	21	23
PERFORMANCE AT 20 PSI (1.4 BAR)									
Flow rates (GPH)	n/a	7.8	8.9	11.1	13.3	15.5	20.0	31.0	35.5
Wetting diameter (feet)	n/a	12	14	16	18	20	21	23	25
PERFORMANCE AT 25 PSI (1.7 BAR)									
Flow rates (GPH)	4.9	8.7	9.9	12.4	14.9	17.4	22.3	29.7	39.7
Wetting diameter (feet)	8	13	15	17	19	21	21	25	27
PERFORMANCE AT 30 PSI (2.1 BAR)									
Flow rates (GPH)	5.4	9.5	10.9	13.6	16.3	19.0	24.4	32.6	43.4
Wetting diameter (feet)	10	15	18	20	22	23	24	26	28
Rectangular spacing	5 x 7	12 x 10	14 x 12	14 x 12	14 x 12	14 x 12	16 x 14	16 x 14	16 x 14
Application rate (in/hr)	0.24	0.12	0.10	0.13	0.15	0.18	0.17	0.23	0.31



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