

2005 AquaMaster

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Economical solution for undertree and overhead irrigation

Applications

- For widely-spaced plantations such as walnut, almond, avocado and mango
- For overhead irrigation of vegetables and nurseries using NaanDanJain
- IrriStand systems (up to 6 x 6 m spacing)

Structure and features

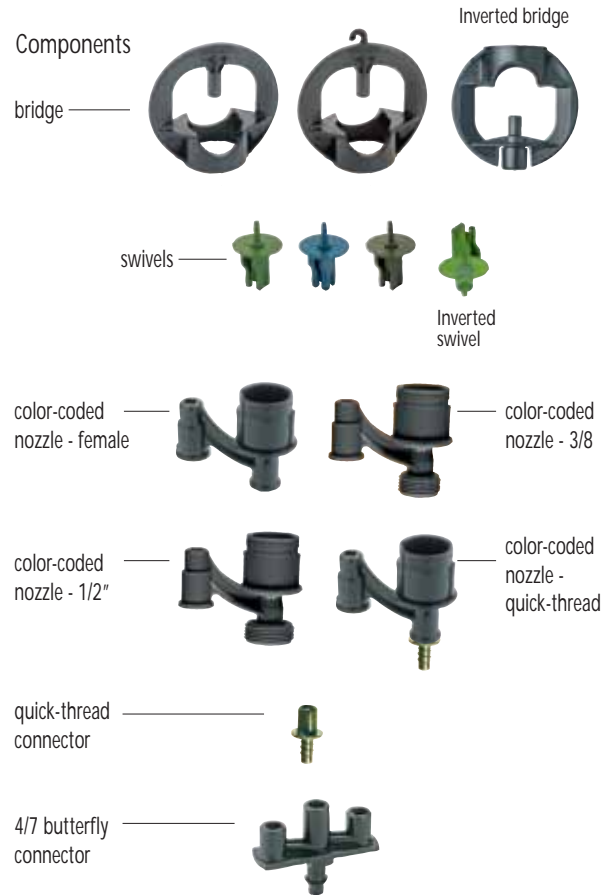
- Extra-long range
- Simple, user-friendly structure
- Uniform coverage over a wide range of spacings, flow rates and pressures
- Insect-resistant nozzle
- Large droplets
- Innovative spike
- Inverted version available for tunnels and greenhouses



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Technical data

- Recommended working pressure: 1.5-3.0 bar
- Recommended working pressure (inverted version): 2.0-3.0 bar
- Flow rate: 30-365 l/h
- Wetted diameter: 5.5-12.5
- Filtration requirements: purple and brown nozzles - 130 microns
other nozzles - 200 microns



Flow rates and wetted diameter

Swivel color	Nozzle color	Nozzle ID mm	1.5 bar		2.0 bar*		2.5 bar	
			l/h	D (m)	l/h	D (m)	l/h	D (m)
Black	Violet	0.80	30.3	5.5	35	5.5	39.1	5.5
	Brown	0.94	43.3	6.5	50	6.5	55.9	6.5
Blue	Grey	1.14	60.6	7.0	70	7.0	78.3	7.0
	Green	1.40	90.9	8.0	105	9.0	117.4	9.0
Green	Orange	1.50	103.9	9.0	120	9.5	134.2	9.5
	Black	1.74	138.6	9.5	160	10.0	178.9	10.0
	Blue	1.94	173.2	10.5	200	10.5	223.6	11.0
	Yellow	2.16	215.0	10.5	250	11.5	305.0	12.0
	Red	2.36	260.0	12.0	300	12.5	365.0	12.5

*Tested at 0.25 m height

Inverted model - Flow rates and wetted diameters

Swivel color	Nozzle color	Nozzle ID (mm)	2.0 bar*	
			l/h	D (m)
Green	Violet	0.80	35	6.5
Inverted	Brown	0.94	50	7.5
	Grey	1.14	70	9.0
	Green	1.40	105	10.0
	Orange	1.50	120	10.5
	Black	1.74	160	11.0
	Blue	1.94	200	11.5

*Tested at 1.8 m height

Performance table for Irristand application

Swivel	Nozzle color	Flow rate (l/h)	D (m)	Precipitation (mm/h) Spacing (m)			
				3x3 mm/h	4x4 mm/h	5x5 mm/h	6x6 mm/h
Green	Orange	120	9.5	13.3	7.5	4.8	3.3
	Black	160	10.0	17.8	10.0	6.4	4.4
	Blue	200	11.0	22.2	12.5	8.0	5.6
	Yellow	250	11.5	27.8	15.7	10.0	7.0
	Red	300	13.0	32.9	18.5	11.8	8.2

Tested at 0.6 m height and 2.0 bar pressure

Performance table for Inverted application

Nozzle color	Nozzle ID (mm)	Flow rate (l/h)	Precipitation (mm/h) Spacing (m)				
			3x3 mm/h	4x4 mm/h	4x6 mm/h	5x5 mm/h	6x6 mm/h
Grey	1.20	70	7.7	4.4	2.9	2.8	1.9
Green	1.45	105	11.7	6.6	4.4	4.2	2.9
Orange	1.55	120	14.0	7.9	5.3	5.1	3.5
Black	1.80	160	17.5	9.9	6.6	6.3	4.4

Tested at 1.8 m height and 2.0 bar pressure

Color code - Distribution uniformity

CU < 85%
 CU = 85-88%
 CU = 89-92%
 CU > 93%