

*Creating a Green World*

**AQua**

Micro Sprinklers &  
Accessories



Sr. No.	Content	Page No.
1	Aquajet (AQ-201)	3
2	Aquatuff (AQ-205)	4-5
3	Aquatuff (AQ-205 Agristand)	6-7
4	Aquatuff Excel (AQ-206)	8-9
5	Flow Regulating Micro Sprinkler (AQ-206PC)	10-11
6	Aquamic (AQ-210 Rotor)	12
7	Aquamic (AQ-210 Mist Sprayer & Agristand)	13
8	Aquamic Inverted (AQ-210 Mist Sprayer )	14
9	Aquamic Inverted (AQ-210 )	15
10	Aquamic Excel (AQ-211)	16-17
11	Aquafly (AQ-220)	18-19
12	Aquafog (AQ-250)	20
13	Leakage Prevention Device (LPD)	21
14	PVC Micro Tubes	22
15	Micro Sprinkler Accessories	23
16	Weight Chart	24-27

## New Products



Aquatuff (AQ-205)  
Low Trajectory Angle  
Refer Page No. 7



(AQ-206PC)  
Flow Regulating Micro Sprinkler  
Refer Page No. 11



Double Layer Micro Tubes  
Refer Page No. 22





## Features & Specifications

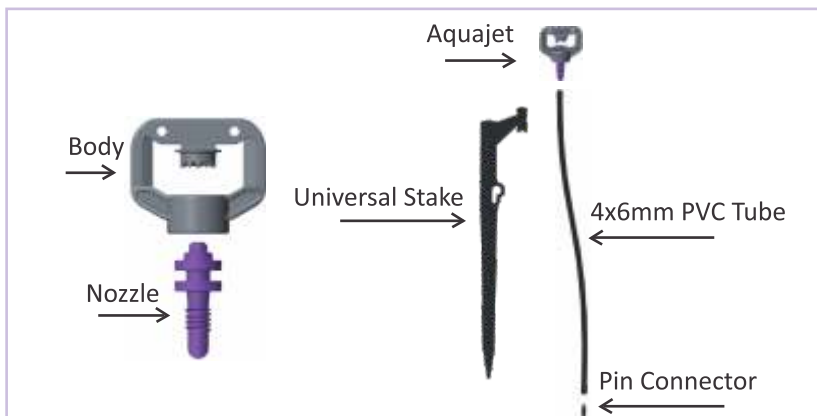
- Pushfit / Quickfit connector
- 2 parts design
- Operating pressure range: 0.5 - 2.0 kg/cm<sup>2</sup>
- 2 Color - Coded nozzles for flow rates from 24 - 75 l/h
- Excellent Distribution with wide range of spacing
- Jet characterized by 8 different spray patterns.

Wetted Diameter (m)												
Nozzle Size/Color	Pressure	Flow Rate										
			12 x 360°	9 X 270°	8 X 210°	8 X 180°	16 X 360°	22 X 360°	12x 360°	11x 330°	High	Low
(mm)	kg/cm <sup>2</sup>	LPH	F	U	C	H	J2	E	A		N	
Purple (1.0mm)	0.5	24	2.8	3.8	4	3.8	2.6	3.0	4.2	3.0	4.2	3.0
	1	34	4.0	5.2	5.5	5.4	3.8	4.0	5.0	4.0	5.0	4.0
	1.5	42	4.8	6.2	6.5	6.5	4.6	4.6	5.8	4.6	5.8	4.6
	2	48	5.6	7.2	7.5	7.4	5.4	5.4	6.5	5.5	6.5	5.5
Orange (1.2mm)	0.5	34	3.8	4.4	4.6	4.6	3.6	3.6	5.4	4.0	5.4	4.0
	1	52	5.4	6.4	6.7	6.6	5.2	4.6	6.2	4.8	6.2	4.8
	1.5	64	6.4	7.2	7.5	7.4	6.2	5.8	6.8	5.4	6.8	5.4
	2	75	7.2	8.4	8.6	8.5	7.0	6.6	8.0	6.6	8.0	6.6

\* Tested at 25cm height above ground

### Flow Coefficient & Flow Constant

For Purple Nozzle: K=11, X=0.5 / For Orange Nozzle: K=16, X=0.5



### Assembly / Exploded View

Parts	Parts Description	Material
1	Body	POM
2	Nozzle	POM





## Features & Specifications

- Pushfit / Quickfit connector
- Sturdy Structure and User Friendly
- Insect proof Pop-up Swivel
- Range of operating Pressure: 1.5 - 2.5kg/cm<sup>2</sup>
- Flow Rate Range: 30 - 324 LPH
- Recommended Spacing: 4x4m & 5x5m

Swivel Color	Nozzle Size/color	Pressure (kg/cm <sup>2</sup> )	Flow Rate (LPH)	Wetted Dia. (m)	Precipitation Rate (mm/hr)/ Spacings (m)				
					3.0x3.0	3.5x3.5	4.0x4.0	4.5x4.5	5.0x5.0
Black	0.8mm	1.5	31	5.5	3.1	2.3			
		2.0	36	6.0	4.0	2.9	2.3		
		2.5	40	6.5	4.6	3.3	2.6		
	0.94mm	1.5	45	6.0	4.7	3.4	2.6		
		2.0	52	6.5	5.8	4.2	3.3	2.6	
Blue	1.14mm	2.5	58	7.0	6.3	4.7	3.6	2.8	
		1.5	61	7.5	6.9	5.1	3.9	3.1	2.5
		2.0	71	8.0	7.9	5.8	4.4	3.5	2.8
	1.4mm	2.5	79	8.5	8.9	6.5	5.0	4.0	3.2
		1.5	88	8.2	10.0	7.3	5.6	4.4	3.6
		2.0	102	8.5	11.3	8.3	6.4	5.0	4.1
Green	1.5mm	2.5	114	9.0	13.1	9.6	7.4	5.8	4.7
		1.5	106	9.2	11.7	8.6	6.6	5.2	4.2
		2.0	122	9.8	13.6	10.0	7.6	6.0	4.9
	1.74mm	2.5	136	10.3	15.1	11.1	8.5	6.7	5.4
		1.5	149	9.5	15.6	11.4	8.8	6.9	5.6
		2.0	162	10.5	18.0	13.2	10.1	8.0	6.5
	1.98mm	2.5	181	10.7	20.0	14.7	11.3	8.9	7.2
		1.5	175	10.0	19.3	14.2	10.9	8.6	7.0
		2.0	202	10.8	22.4	16.5	12.6	10.0	8.1
	2.2mm	2.5	226	11.0	25.0	18.4	14.1	11.1	9.0
		1.5	212	10.2	23.3	17.1	13.1	10.4	8.4
		2.0	245	11.0	27.2	20.0	15.3	12.1	9.8
		2.5	274	11.2	32.8	24.1	18.4	14.6	11.8
		1.5	251	10.4	27.2	20.0	15.3	12.1	9.8
		2.0	290	11.5	32.2	23.7	18.1	14.3	11.6
2.5	324	12.0	38.9	28.6	21.9	17.3	14.0		

\* Tested at 25cm height above ground Color Code Distribution Uniformity

CDU < 85%	85% ≤ CDU ≤ 88%	89% ≤ CDU ≤ 92%	CDU > 92%
-----------	-----------------	-----------------	-----------



insect proof Pop-up Swivel  
with diameter limiter



## Applications

- For overhead irrigation of Orchard, Nurseries, Green houses and vegetable crops.
- For irrigation of widely spaced plants up to 5x5m spacing at stake.
- Ideal for frost protection and overhead cooling.

## Flow Rates & Wetted Diameter at 2.0 kg/cm<sup>2</sup> Pressure

Nozzle Color	Flow Rate (LPH)	Nozzle Size (mm)	Purple Swivel		Grey Swivel	
			Short Diameter		Large Diameter	
			Diameter (M)		Diameter (M)	
			1 <sup>st</sup> Stage	2 <sup>nd</sup> Stage	1 <sup>st</sup> Stage	2 <sup>nd</sup> Stage
Grey	71	1.14	1.3	3.2	1.9	5.4
Green	102	1.4	1.4	3.2	1.9	5.8
Orange	122	1.5	1.5	3.4	2.0	6.2
Black	162	1.78	1.6	3.5	2.0	6.6
Blue	202	1.98	1.6	4.0	2.2	7.0
Yellow	245	2.2	1.7	4.2	2.2	7.4
Red	290	2.4	1.8	4.5	2.5	7.6

\* Tested at 25cm height above ground

## Flow Constant & Exponent

Nozzle Size /Color	Q(l/h) = K*P (meters) <sup>x</sup>	
	K	X
0.8mm	8.0	0.5
0.94mm	11.6	0.5
1.14mm	15.9	0.5
1.4mm	22.8	0.5
1.5mm	27.3	0.5
1.74mm	36.2	0.5
1.98mm	45.2	0.5
2.2mm	54.8	0.5
2.4mm	64.8	0.5
2.8mm	90.3	0.5



Stage 1 : For Young Plants



Stage 2 : For Mature Plants

# Aquatuff

AQ- 205 (Agristand)



## Features & Specifications

- Sturdy Structure and User Friendly
- $\frac{3}{8}$ " &  $\frac{1}{2}$ " male threaded connection
- Insect proof Pop-up Swivel
- Range of operating Pressure: 1.5 - 2.5kg/cm<sup>2</sup>
- Flow Rate Range: 175 - 450 LPH
- Recommended Spacing: 4x4m, 5x5m & 6x6m

Performance Chart (High Trajectory Angle)

Nozzle Colour	Size (mm)	Pressure kg/cm <sup>2</sup>	Flow (LPH)	Dia. (m)	Precipitation Rate (mm/hr)/Spacings (m)		
					4x4	5x5	6x6
Blue	1.98	1.5	175	10.6	10.9	7.0	4.9
		2	202	11.0	12.6	8.1	5.6
		2.5	226	11.5	14.1	9.0	6.3
Red	2.4	1.5	251	10.6	15.7	10.0	7.0
		2	290	11.7	18.1	11.6	8.1
		2.5	324	12.2	20.3	13.0	9.0
White	2.8	1.5	350	12.0	21.9	14.0	9.7
		2	404	12.5	25.3	16.2	11.2
		2.5	452	12.8	28.3	18.1	12.6

\* Tested at 1m high above ground Color Code Distribution Uniformity

CDU < 85%	85% ≤ CDU < 88%	89% ≤ CDU < 92%	CDU > 92%
-----------	-----------------	-----------------	-----------





# Aquatuff

AQ- 205 (Agristand)



Low Angle Model - Specially developed for Banana plantation

## Applications

- For overhead irrigation of Orchard, nurseries, Green houses and vegetable crops.
- For irrigation of widely spaced plants upto 6x6m spacing at Agri-Stand
- Ideal for frost protection and overhead cooling

Performance Chart (Low Trajectory Angle)

Nozzle Colour	Size (mm)	Pressure kg/cm <sup>2</sup>	Flow (LPH)	Dia. (m)	Precipitation Rate (mm/hr)/Spacings (m)		
					4x4	5x5	6x6
Blue	1.98	1.5	175	10.0	10.9	7.0	4.9
		2	202	11.0	12.6	8.1	5.6
		2.5	226	11.5	14.1	9.0	6.3
Red	2.4	1.5	251	10.6	15.7	10.0	7.0
		2	290	11.7	18.1	11.6	8.1
		2.5	324	12.2	20.3	13.0	9.0
White	2.8	1.5	350	10.8	21.9	14.0	9.7
		2	404	11.9	25.3	16.2	11.2
		2.5	452	12.4	28.3	18.1	12.6

\* Tested at 1m high above ground Color Code Distribution Uniformity

CDU < 85%	85% ≤ CDU ≤ 88%	89% ≤ CDU ≤ 92%	CDU > 92%
-----------	-----------------	-----------------	-----------





## Features & Specifications

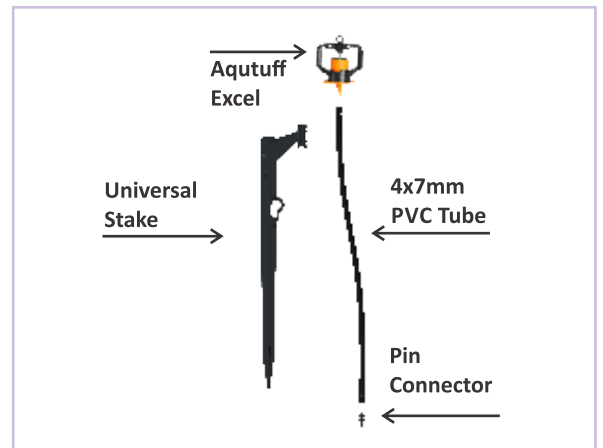
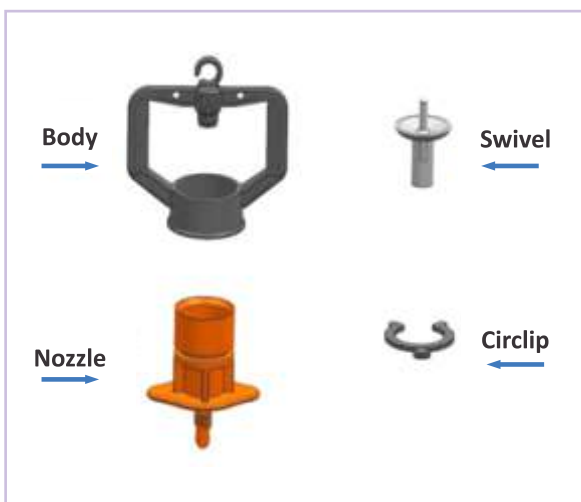
- Self tapping connection
- Excellent distribution uniformity.
- Range of operating Pressure: 1.0 - 2.5kg/cm<sup>2</sup>
- Flow Rate Range: 37 - 177 LPH
- **Installed in the ground on stake or hang it by wire.**
- Recommended Spacing 3x3, 3.5x3.5, 4x4 & 4.5 x 4.5 m.
- Excellent material achieves high wear resistant and trouble free swivel rotation.
- Insect proof design
- **Optional trunk protector to protect the plant trunk from wetting, restricting fungus, algae growth.**
- Specially designed Circlip to easily open micro sprinkler for cleaning by the end user.
- Excellent gripping of self tapping connection with 4x7mm PVC tube
- UV & Chemical Resistant material.

### Flow Constant & Exponent

Nozzle Size /Color	Q(l/h) = K*P (meters) <sup>x</sup>	
	K	X
1.0mm	11.7	0.5
1.2mm	16.4	0.5
1.4mm	22.8	0.5
1.5mm	25.9	0.5
1.8mm	35.4	0.5

### Assembly/Exploded View

Parts	Parts Description	Material
1	Body	POM
2	Swivel Gray	Filled Nylon
3	Circlip	POM
4	Nozzle	POM





# Aquatuff Excel

AQ - 206



## Applications

- For irrigation of tree plantation of large root volumes, fruit trees, orchards etc.
- For irrigation of widely spaced plants upto 4x4m spacing.

Nozzle Size	Color Code	Pressure (bar)	Flow Rate	Wetted Dia. (m)	Precipitation Rate (mm/hr)/Spacings (m)			
					3.0x3.0	3.5x3.5	4.0x4.0	4.5x4.5
1.0mm	Brown	1.0	37	5.5	4.1	3.0	2.3	1.8
		1.5	45	6.0	5.0	3.7	2.8	2.2
		2.0	52	7.0	5.8	4.2	3.3	2.6
		2.5	59	7.0	6.6	4.8	3.7	2.9
1.2mm	Grey	1.0	52	6.5	5.8	4.2	3.3	2.6
		1.5	64	7.2	7.1	5.2	4.0	3.2
		2.0	74	7.7	8.2	6.0	4.6	3.7
		2.5	82	8.4	9.1	6.7	5.1	4.0
1.4mm	Green	1.0	72	6.5	8.0	5.9	4.5	3.6
		1.5	88	7.5	9.8	7.2	5.5	4.3
		2.0	102	8.0	11.3	8.3	6.4	5.0
		2.5	114	8.8	12.7	9.3	7.1	5.6
1.5mm	Orange	1.0	82	7.0	9.1	6.7	5.1	4.0
		1.5	100	8.0	11.1	8.2	6.3	4.9
		2.0	116	8.7	12.9	9.5	7.3	5.7
		2.5	130	9.3	14.4	10.6	8.1	6.4
1.8mm	Black	1.0	112	7.0	12.4	9.1	7.0	5.5
		1.5	137	8.0	15.2	11.2	8.6	6.8
		2.0	158	9.0	17.6	12.9	9.9	7.8
		2.5	177	9.7	19.0	16.7	11.1	8.7

\* Tested at 25cm riser height above ground

CDU < 85%	85% ≤ CDU ≤ 88%	89% ≤ CDU ≤ 92%	CDU > 92%
-----------	-----------------	-----------------	-----------

# Flow Regulating Micro Sprinkler

AQ - 206PC

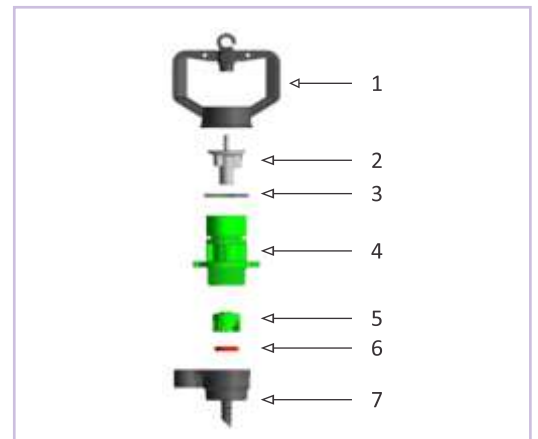


## Features

- Constant Flow between 2 to 4 kg/cm<sup>2</sup> pressure.
- Flow Rate: 20, 28, 39, 62, 72, 95 LPH.
- Range of operating Pressure:  
20, 28, 39, 62 LPH: 2 - 4 kg/cm<sup>2</sup>  
72 and 95 LPH: 1.75 - 3.5 kg/cm<sup>2</sup>
- **Installed in the ground on stake or hang it by wire.**
- Recommended Spacing: 3x3, 3.5x3.5 & 4x4m
- Two Stage wetted diameter control.
- Insect proof design.
- Excellent distribution uniformity.
- **Optional trunk protector to protect the plant trunk from wetting, restricting fungus, algae growth.**
- Quick thread & push fit adopter connection.
- 4x7mm PE/PVC tube.
- UV & Chemical Resistant material.

## Assembly/Exploded View

Parts	Parts Description	Material
1	Body	POM
2	Swivel Grey	FILLED NYLON
3	Circlip	POM
4	Nozzle	POM
5	Nozzle Bottom	POM
6	Seal	Silicon
7	Adopter	POM

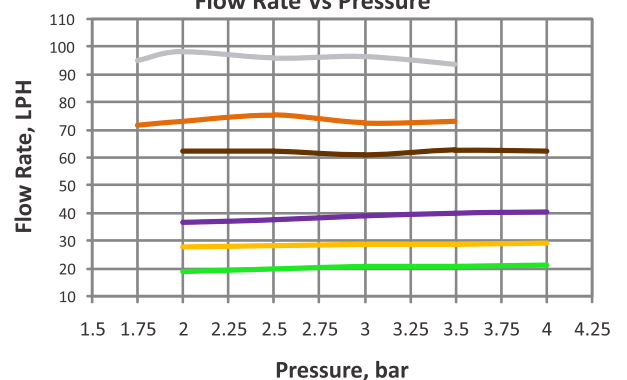


## Performance Chart

Nozzle Color	Nozzle Size (mm)	Flow Rate (LPH)	Swivel Color (Grey)		Swivel Color (Black)	
			Short Diameter Diameter (m)		Large Diameter Diameter (m)	
			1 <sup>st</sup> Stage	2 <sup>nd</sup> Stage	1 <sup>st</sup> Stage	2 <sup>nd</sup> Stage
Purple	0.8mm	20	1.2	3.5	1.6	4.5
Brown	0.94mm	28	1.2	4.0	1.6	5.0
Green	1.05mm	39	1.4	4.0	2.0	6.0
Yellow	1.25mm	62	1.6	4.6	2.0	7.0
Orange	1.35mm	72	1.8	4.8	2.0	7.2
White	1.6mm	95	2.0	5.2	2.2	7.5

\*Tested at 25cm high above ground

## Flow Rate Vs Pressure



# Flow Regulating Micro Sprinkler

AQ - 206PC



## Applications

- For Uniform irrigation of orchard, vineyards, nursery & undertree where undulating terrain and long lateral lengths are challenging.

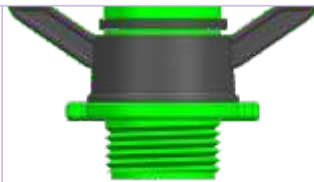


Specially designed Circlip for easy opening of micro sprinkler for cleaning by the end user.

## Connections Available



Quick Threaded Type



Threaded Type



Push-Fit Type





## Features & Specifications

- Bayonet connection
- 2 different swivels
- 8 Color - Coded nozzles for flow rates from 24- 320 LPH
- Excellent Distribution uniformity ranging from spacing: 3x3, 3.5x3.5, 4x4, 4.5x 4.5 & 5 x 5m

## Applications

- Green Houses and Nurseries
- Horticulture and Agriculture
- Creation of micro climatic conditions in orchards

Performance Chart

Nozzle Size	Color Code	Pressure kg/cm <sup>2</sup>	Flow Rate LPH	Wetted Dia. m	Precipitation Rate (mm/hr)/ Spacings (m)				
					3.0x3.0	3.5x3.5	4.0x4.0	4.5x4.5	5.0x5.0
0.8mm	Black	1	24	5.0	2.7	2.0	1.5	1.2	
		2	34	5.5	3.8	2.8	2.1	1.7	
		3	42	6.0	4.7	3.4	2.6	2.1	
1.0mm	Purple	1	37	5.5	4.1	3.0	2.3	1.8	1.5
		2	52	6.0	5.8	4.2	3.3	2.6	2.1
		3	64	7.0	7.1	5.2	4.0	3.2	2.6
1.2mm	Orange	1	54	6.5	6.0	4.4	3.4	2.7	2.2
		2	76	7.0	8.4	6.2	4.8	3.8	3.0
		3	93	7.5	10.3	7.6	5.8	4.6	3.7
1.4mm	Blue	1	72	7.0	8.0	5.9	4.5	3.6	2.9
		2	102	7.6	11.3	8.3	6.4	5.0	4.1
		3	125	8.0	13.9	10.2	7.8	6.2	5.0
1.6mm	Yellow	1	92	7.5	10.2	7.5	5.8	4.5	3.7
		2	130	8.0	14.4	10.6	8.1	6.4	5.2
		3	159	8.5	17.7	13.0	9.9	7.9	6.4
1.8mm	Green	1	115	8.0	12.8	9.4	7.2	5.7	4.6
		2	162	8.5	18.0	13.2	10.1	8.0	6.5
		3	198	9.0	22.0	16.2	12.4	9.8	7.9
2.0mm	White	1	140	8.0	15.6	11.4	8.8	6.9	5.6
		2	198	8.8	22.0	16.2	12.4	9.8	7.9
		3	242	9.2	26.9	19.8	15.1	12.0	9.7
2.3mm	Brown	1	184	8.0	20.4	15.0	11.5	9.1	7.4
		2	260	9.0	28.9	21.2	16.3	12.8	10.4
		3	318	9.5	35.3	26.0	19.9	15.7	12.7

\* Tested at 25cm height above ground

Color Code Distribution Uniformity

CDU < 85%	85% ≤ CDU ≤ 88%	89% ≤ CDU ≤ 92%	CDU > 92%
-----------	-----------------	-----------------	-----------

# Aquamic

AQ - 210 (Mist Sprayer & Agristand)



## Features & Specifications

- Bayonet connection
- Mist static swivel in Black Color
- 6 Color - Coded nozzles for flow rates from 24- 198 LPH
- Excellent Distribution uniformity ranging from spacing: 1.5X1.5 & 2X2

## Applications

- For plant propagation & creation of micro climatic conditions in greenhouses, nurseries & propagation chambers.

Performance Chart				
Nozzle Size	Color Code	Pressure kg/cm <sup>2</sup>	Flow Rate LPH	Wetted Dia. (m)
0.8mm	Black	1.0	24	1.8
		2.0	34	2.0
		3.0	42	2.2
1.0mm	Purple	1.0	37	2.0
		2.0	52	2.3
		3.0	64	2.5
1.2mm	Orange	1.0	54	2.3
		2.0	76	2.6
		3.0	93	2.9
1.4mm	Blue	1.0	72	3.0
		2.0	102	3.2
		3.0	125	3.4
1.6mm	Yellow	1.0	92	3.4
		2.0	130	3.7
		3.0	159	3.8
1.8mm	Green	1.0	115	3.6
		2.0	162	4.0
		3.0	198	4.2

\* Tested at 25cm height above ground

## Aquamic

AQ - 210 (AgriStand)

## Features & Specifications

- Bayonet connection
- Black Rotor Swivel
- 3 Color - Coded nozzles for flow rates from 140-386 LPH
- Excellent Distribution with wide range of spacing: 4.5X4.5, 5X5 & 5.5X5.5
- Horticulture and Agriculture



1/2" Male Threaded

## Aquamic

AQ - 210 (Range Rotor)

Nozzle Colour	Size (mm)	Pressure kg/cm <sup>2</sup>	Flow (LPH)	Dia. (m)
White	2.0	1	140	9.8
		2	198	11.3
		3	242	12.0
Brown	2.3	1	182	11.0
		2	260	12.2
		3	318	12.4
Red	2.5	1	262	11.3
		2	315	12.9
		3	386	13.1

\* Tested Height 1.0meter above ground.



Black Swivel

*Creating a Green World*

# Aquamic Inverted

AQ - 210 (Mist Sprayer)



Black Mist Swivel

## Features & Specifications

- Operating Pressure Range : 1½ to 2½ kg/cm<sup>2</sup>
- Fine drops creates uniform cloud.
- Recommended Spacing : 1.0 to 1.5 mtr.
- Coverage Diameter : 2.2 to 4.8 mtr.
- Discharge Flow Rates : 29 to 182 LPH

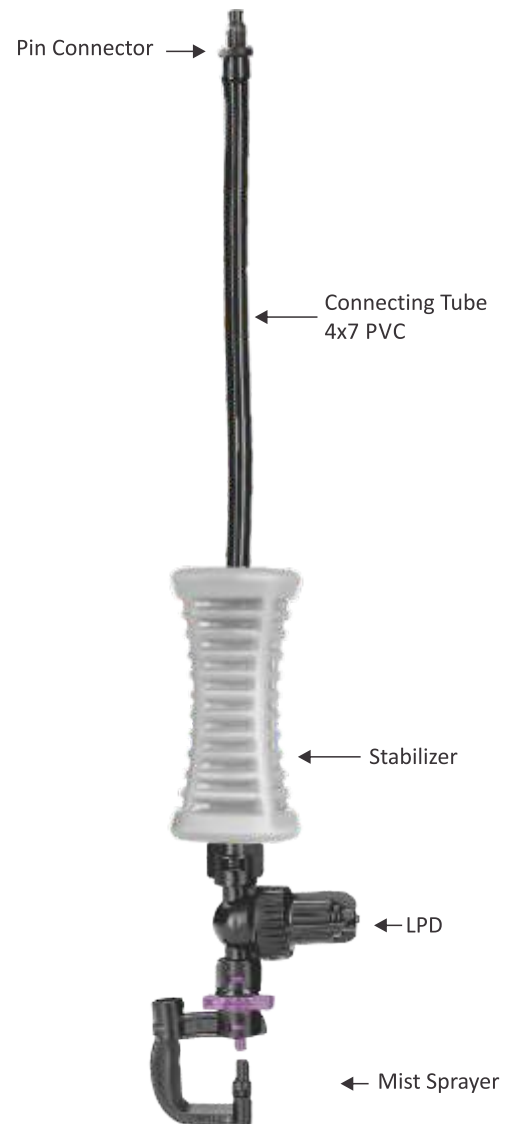
## Applications

- Nurseries, Greenhouses & shade nets.
- Creation of micro climatic condition & humidity control

## Performance Chart

Nozzle Color	Size (mm)	Pressure kg/cm <sup>2</sup>	Flow (LPH)	Dia. (m)
Black	0.8mm	1.5	29	2.2
		2.0	34	2.4
		2.5	38	2.6
Purple	1.0mm	1.5	45	2.4
		2.0	52	2.6
		2.5	58	2.8
Orange	1.2mm	1.5	66	3
		2.0	76	3.2
		2.5	85	3.4
Blue	1.4mm	1.5	88	3.2
		2.0	102	3.4
		2.5	114	3.6
Yellow	1.6mm	1.5	113	3.8
		2.0	130	4.2
		2.5	145	4.4
Green	1.8mm	1.5	140	4.2
		2.0	162	4.6
		2.5	182	4.8

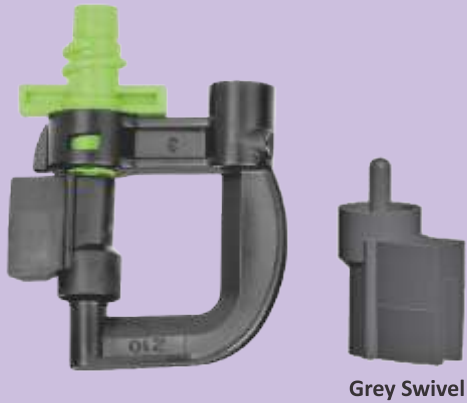
\* Tested at 2m height above ground.





# Aquamic Inverted

AQ - 210



Grey Swivel

## Features & Specifications

- Operating Pressure Range : 1½ to 2½ kg/cm<sup>2</sup>
- Fine drops creates uniform cloud.
- Recommended Spacing : 3 to 5 mtr.
- Coverage Diameter : 7.6 to 10.8 mtr.
- Discharge Flow Rates : 45 to 290 ltr/hr.

## Applications

- Irrigation of plants in shade nets, nurseries & greenhouses.
- Can be used in poultry for cooling of birds directly.

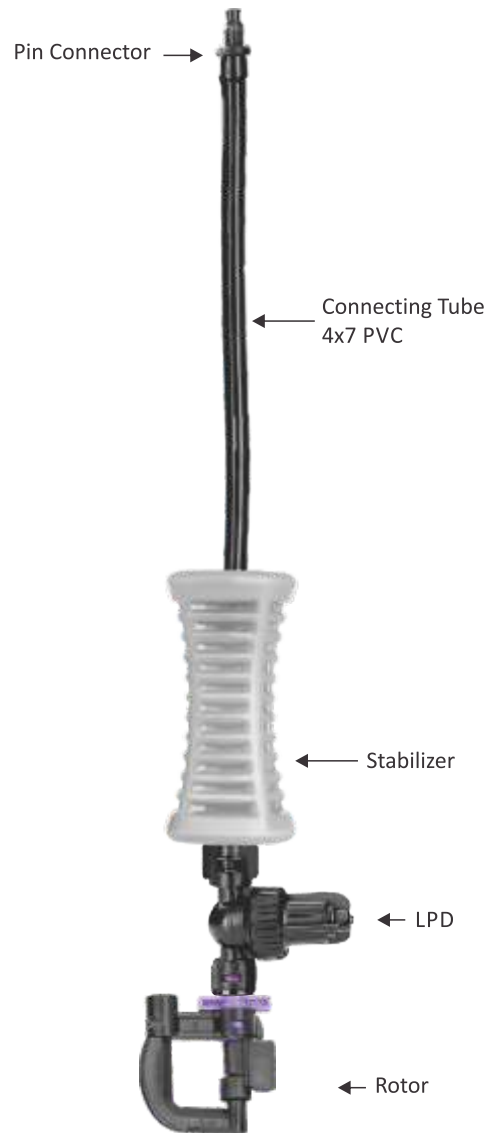
## Performance Chart

Nozzle Color	Size (mm)	Pressure kg/cm <sup>2</sup>	Flow (LPH)	Dia. (m)
Purple	1.0	1.5	45	7.6
		2.0	52	7.8
		2.5	58	8.3
Orange	1.2	1.5	66	8.3
		2.0	76	8.5
		2.5	85	8.8
Blue	1.4	1.5	88	8.9
		2.0	102	9.3
		2.5	114	9.5
Yellow	1.6	1.5	113	9.1
		2.0	130	9.5
		2.5	145	10
Green	1.8	1.5	140	9.5
		2.0	162	10
		2.5	181	10.4
White	2.0	1.5	171	9.8
		2.0	198	10.5
		2.5	221	10.6
Brown	2.3	1.5	225	9.7
		2.0	260	10.8
		2.5	291	10.8

\* Tested at 2m height above ground.

## Flow Constant & Exponent

Nozzle Size	Q(l/h) = K*P (meters) <sup>x</sup>	
	K	X
0.8mm	7.6	0.5
1.0mm	11.6	0.5
1.2mm	17.0	0.5
1.4mm	22.8	0.5
1.6mm	29.1	0.5
1.8mm	36.2	0.5
2.0mm	44.3	0.5
2.3mm	58.1	0.5



E-mail: [contactus@automatworld.com](mailto:contactus@automatworld.com)  
 Website: [www.automatworld.com](http://www.automatworld.com)

*Creating a Green World*



## Features & Specifications

- Installed in the ground on stake or hang it by wire.
- Available Connection: Both Barbed & 3/8" male thread type connections.
- Excellent distribution uniformity.
- Range of operating Pressure: 1.0 - 3.0 kg/cm<sup>2</sup>
- Flow Rate Range: 82 - 246 LPH
- Recommended Spacing 3x3, 3.5x3.5 , 4x4 & 5X 5m
- Excellent material achieves high wear resistant and trouble free swivel rotation.
- **Specially designed Circlip to easily open micro sprinkler for cleaning by the end user.**
- 6x8mm PE tube for more water carrying capacity to run sprinkler at low pressure (0.5 kg/cm<sup>2</sup>)
- UV & Chemical Resistant material.

Nozzle Size	Nozzle Color	Pressure kg/cm <sup>2</sup>	Flow Rate LPH	Wetted Dia. (m)	Precipitation Rate (mm/hr)/ Spacings (m)				
					3.0x3.0	3.5x3.5	4.0x4.0	4.5x4.5	5.0x5.0
1.5mm	Yellow	1.0	82	7.2	9.1	6.7	5.1	4.0	3.3
		1.5	100	7.8	11.1	8.2	6.3	4.9	4.0
		2.0	116	8.2	12.9	9.5	7.3	5.7	4.6
		2.5	130	8.6	14.4	10.6	8.1	6.4	5.2
		3.0	142	8.8	15.8	11.6	8.9	7.0	5.7
1.85mm	Green	1.0	105	7.5	11.7	8.6	6.6	5.2	4.2
		1.5	129	8.0	14.3	10.5	8.1	6.4	5.2
		2.0	148	8.5	16.4	12.1	9.3	7.3	5.9
		2.5	166	9.0	18.4	13.6	10.4	8.2	6.6
		3.0	182	9.0	20.2	14.9	11.4	9.0	7.3
2.1mm	White	1.0	142	7.5	15.8	11.6	8.9	7.0	5.7
		1.5	174	8.5	19.3	14.2	10.9	8.6	7.0
		2.0	201	9.0	22.3	16.4	12.6	9.9	8.0
		2.5	225	9.5	25.0	18.4	14.1	11.1	9.0
		3.0	246	9.5	27.3	20.1	15.4	12.1	9.8

\* Tested at 50cm height above ground

CDU < 85%	85% ≤ CDU ≤ 88%	89% ≤ CDU ≤ 92%	CDU > 92%
-----------	-----------------	-----------------	-----------



# Aquamic Excel

AQ - 211



## Applications

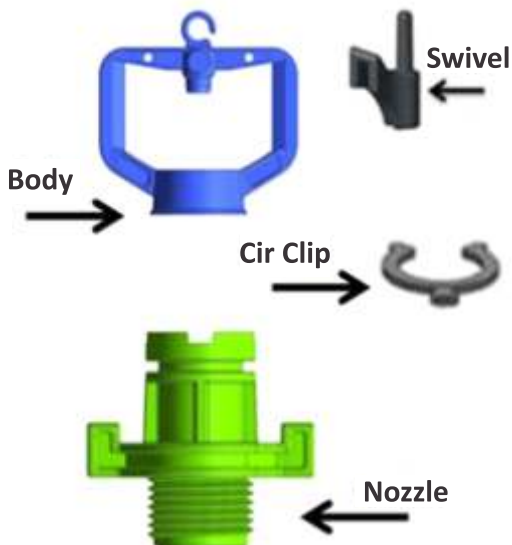
- For overhead irrigation of vegetables, nurseries, flower beds, shrubs & landscape.
- For irrigation of widely spaced plants upto 5x5m sapcing with different mounting options including irrirstand .

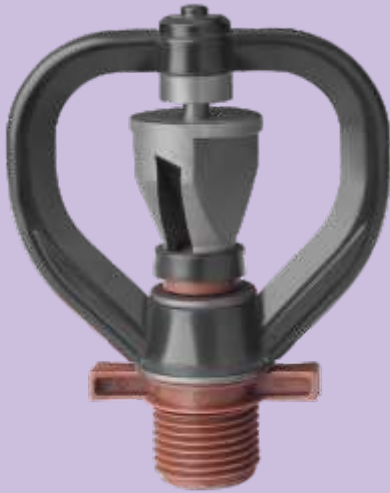
### Flow Constant & Exponent

Nozzle Size	$Q(l/h) = K * P \text{ (meters)}^x$	
	K	X
1.5mm	25.9	0.5
1.85mm	33.2	0.5
2.1mm	44.9	0.5

### Assembly/Exploded View

Parts	Parts Description	Material
1	Body	POM
2	Swivel Gray	Filled Nylon
3	Circlip	POM
4	Nozzle	POM





## Features & Specifications

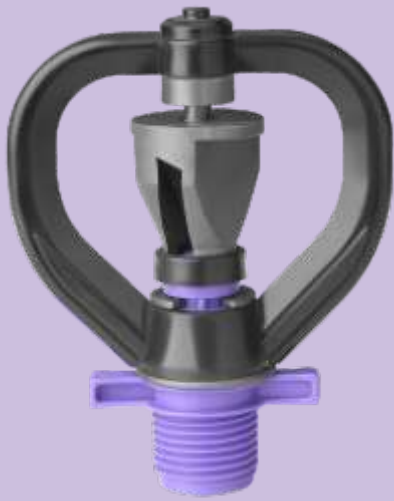
- Sturdy Structure and User Friendly
- ½" male threaded connection
- Excellent distribution uniformity.
- Range of operating Pressure: 1.0 - 2.0kg/cm<sup>2</sup>
- Flow Rate Range: 240 - 557 LPH
- Recommended Spacing 4x4m, 5x5m & 6x6m
- Bridge rotation do no leave dry patches in the field.

Nozzle Size	Nozzle Color	Pressure kg/cm <sup>2</sup>	Flow Rate LPH	Diameter (m)	Precipitation Rate (mm/hr)/ Spacings (m)		
					4x4	5x5	6x6
2.5mm	Purple	1.0	240	10.50	15.0	9.6	6.7
		1.5	294	11.50	18.4	11.8	8.2
		2.0	339	12.00	21.2	13.6	9.4
2.8mm	Brown	1.0	300	11.00	18.8	12.0	8.3
		1.5	367	12.00	22.9	14.7	10.2
		2.0	424	12.00	26.5	17.0	11.8
3.1mm	Green	1.0	394	11.00	24.6	15.8	10.9
		1.5	483	12.00	30.2	19.3	13.4
		2.0	557	12.50	34.8	22.3	15.5

Tested at 100cm riser height  
Color Code Distribution Uniformity:

CDU < 85%	85% ≤ CDU ≤ 88%	89% ≤ CDU ≤ 92%	CDU > 92%
-----------	-----------------	-----------------	-----------





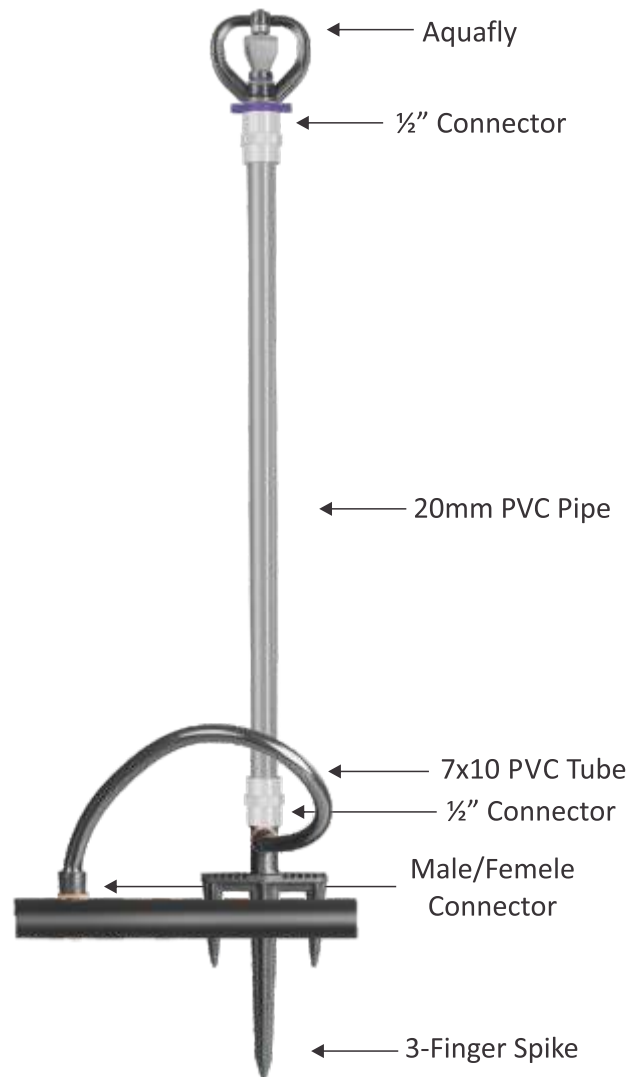
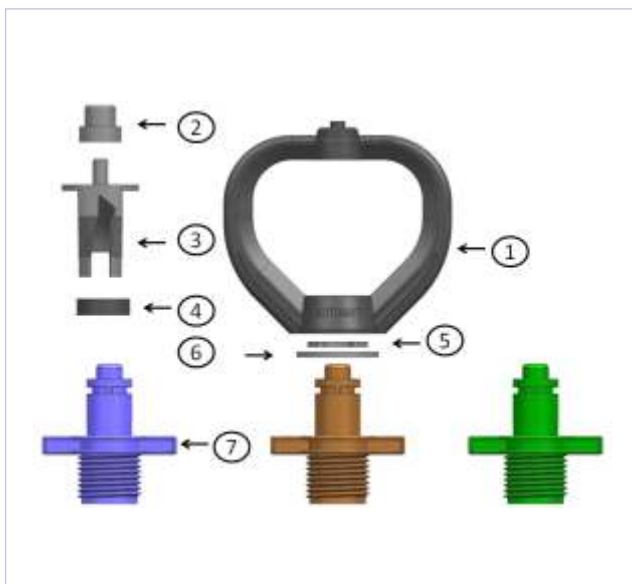
## Applications

- High Volume, low pressure plastic micro sprinkler for overhead irrigation of close spacings vegetable crops (Ginger, Onion, Potatoes etc.) and flowers.
- For irrigation of widely spaced plants upto 6x6m spacing at Agri-Stand.
- Ideal for crops Which Require more water.

## Flow Constant & Exponent

Nozzle Size Color	Q(l/h) = K*P (meters) <sup>x</sup>	
	K	X
2.5mm	76.0	0.5
2.8mm	95.0	0.5
3.1mm	125.0	0.5

Parts	Parts Description
1	Body
2	Body Bush
3	Swivel
4	Swivel Bush
5	Circlip
6	Washer
7	Nozzle







## Features & Specifications

- Bridge less design eliminates dripping.
- Interchangeable components.
- Components are acid resistant allowing the application chemicals to pass through the system.
- Uniformly distributes an average droplet size of 60 micron within a pressure range.
- Provides perfect conditions for plant propagation.
- Leakage Prevention Device (LPD) for simultaneous start-up and shut-down of the system.

## Applications

- Designed for cooling and humidifying greenhouses & livestock.
- Provides perfect condition for plant propagation & seed germination.



## Technical Specifications

- Recommended Working Pressure: 4.0kg/cm<sup>2</sup>
- Working Pressure Range: 3.0 – 5.0 kg/cm<sup>2</sup>
- Filtration requirements: 130 microns (120 mesh)
- Inlet Connector: Press Fit
- **Color Coded Sky Blue & Green Nozzles**
- Sky Blue Nozzle: 5.5LPH, Green Nozzle: 7.5LPH

### Flow Rates (LPH)

	Blue Nozzle Fogger	Green Nozzle Fogger
<b>1 Way</b>	5.5	7.5
<b>2 Way</b>	11	15
<b>4 Way</b>	22	30

### Performance Chart

Pressure kg/cm <sup>2</sup>	Blue Nozzle Fogger	Green Nozzle Fogger
	mtr	mtr
2.5	1.0	1.0
3.0	1.0	1.2
3.5	1.2	1.2
4.0	1.2	1.4
4.5	1.4	1.6

(The max. distance of particle thrown by fogger at respective pressure)





# Leakage Prevention Device (LPD)



## Features

- Prevents dripping through micro sprinkles & Foggers during inverted installation.
- Keeps line full of water, enables immediate function during pump start-up.
- It allows all micro sprinklers & Foggers to start / stop simultaneously.

## Low Pressure Leakage Prevention Device (LP-LPD)

Connection compatible with Aquamic inverted models

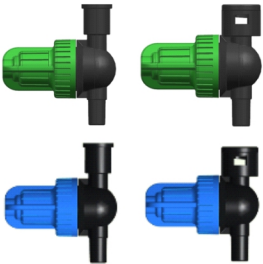


LPD Operating Pressures	
Black Cap	
Opening	1.1 kg/cm <sup>2</sup>
Closing	0.7 kg/cm <sup>2</sup>

LPD Connection	Male Bayonet x Female Bayonet

## Medium Pressure Leakage Prevention Device (MP-LPD)

Connection compatible with Fogger Model

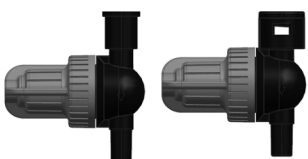


LPD Operating Pressures		
	Green Cap	Blue Cap
Opening	2.0 kg/cm <sup>2</sup>	2.5 kg/cm <sup>2</sup>
Closing	1.1 kg/cm <sup>2</sup>	1.5 kg/cm <sup>2</sup>

LPD Connection	Pushfit Male x Pushfit Female	Pushfit Male x Bayonet Female

## High Pressure Leakage Prevention Device (HP-LPD)

Connection compatible with Fogger Model



LPD Operating Pressures	
Grey Cap	
Opening	3 kg/cm <sup>2</sup>
Closing	2 kg/cm <sup>2</sup>

LPD Connection	Pushfit Male x Pushfit Female	Pushfit Male x Bayonet Female



## Applications

- Orchards, Green Houses and Nurseries
- Micro Climate Control
- Drippers and Automation Application
- Sprinkler and Micro sprinkler Assembly

## DOUBLE LAYER MICRO TUBES



### Features & Specifications

- Working Pressure up to 6 Bar
- Color: White outer layer /Black inner layer and as per customer requirement
- Reduced water temperature and increased plant yield
- Rolled in 50m,100m, 200m,300m and 500m bundle or Cut length durable in wide range of climates
- Customized dimensions and tight tolerance
- UV Stabilized and oxidation resistance
- Tubes are resistant to saline water, acid and most agriculture fertilizer
- Low or medium density polyethylene material resin specially formulated to resist ESCR and kinking

### Available Sizes

Double Layer Micro Tube	PVC Micro Tube	PE Micro Tube (Color: Black / White)
3.0 X 5.0 mm	3.0 X 5.0 mm	3.0 X 5.0 mm
3.5 X 5.0 mm	4.0 X 6.0 mm	4.0 X 6.0 mm
4.0 X 6.0 mm	4.0 X 7.0 mm	4.0 X 7.0 mm
4.0 X 7.0 mm	8.0 X 12.0 mm	5.5 X 7.5 mm
6.0 X 8.0 mm	-----	6.0 X 8.0 mm

#### Tube Assembly (Available Length : 30, 60, 100cm, 120cm) Standard Tube Length 60cm















- Barb Pin Connector + 60cm Tube + Butterfly Adopter
- Barb Pin Connector + 60cm Tube + 3/8" Threaded Adopter
- Bar Pin Connector + 60cm + Female Bayonet
- Barb Pin Connector + 60cm Tube + Push fit Adopter
- Barb Pin Connector + 60cm Tube

#### Tube Assembly for Inverted installations

- 1. Barb Pin Connector + 30cm Tube + Male Bayonet
- Barb Pin Connector + 30cm Tube + Female Bayonet
- Bar Pin Connector + 30cm Tube + Female Bayonet
- Male/Female Bayonet + 30cm Tube + Male Bayonet
- Male/Female Bayonet + 30cm Tube + Push fit Adopter
- Male/Female Bayonet + 30cm Tube + Female Bayonet


# Micro sprinklers Accessories




<p>4x 7 Push Fit Butterfly Adopter 7x 10 Push Fit Butterfly Adopter</p> 	<p><math>\frac{3}{8}</math>" Threaded Adopter with Bayonet connection (4X7 Barb)</p> 
<p>Female Bayonet (4X7 Barb)</p> 	<p>Male Bayonet</p> 
<p>Female Bayonet Quick Thread</p> 	<p>Quick Thread Pushfit Connector</p> 
<p>3 x 5 Barb Pin Connector 4 x 7 Barb Pin Connector 6 x 8 Barb Pin Connector 7 x 10 Barb Pin Connector</p> 	<p>Bayonet Plug</p> 
<p><math>\frac{1}{2}</math>" Female Bush Adopter</p> 	<p>6x8 Bush</p> 
<p><math>\frac{3}{8}</math>" Threaded Adopter (Quick Thread)</p> 	<p><math>\frac{3}{8}</math>" Threaded Adopter ( push fit)</p> 
<p><math>\frac{3}{8}</math>" Threaded Adopter ( 6 x 8 mm Barb)</p> 	<p>Fogger Accessories</p>  <p style="text-align: center;">4 Way Connector    2 Way Connector    Bayonet Plug    Pin Connector</p>

# Weight Chart


## AQ-201 Aquajet Sprinkler

Product	Description	Automat Erp Codes		PCS/BOX	Box Dimension (mm)	Gross Weight (Kg)
		Purple Nozzle	Orange Nozzle			
	12 X 360 Degree	18030256	18030257	8000	400x300x350	18.51


## AQ-205 Aquatuff Micro Sprinkler Pushfit Type

Product	Description	Automat ERP Codes			PCS/BOX	Box Dimension (mm)	Gross Weight (Kg)
		Black Swivel	Blue Swivel	Green Swivel			
	Orange Nozzle			18030035	1000	445X340X285	13.3


## AQ-205 Aquatuff Micro Sprinkler 3/8" Thread Connection

Product	Description	Automat ERP Codes		PCS/BOX	Box Dimension (mm)	Gross Weight (Kg)
		Blue Swivel	Green Swivel			
	Orange Nozzle		18030042	1000	445X340X285	15.02


## AQ-205 Aquatuff Micro Sprinkler 1/2" Type (low Trajectory 14 Degree Green Swivel)

Product	Description	Automat ERP Codes	Automat ERP Codes	PCS/BOX	Box Dimension (mm)	Gross Weight (kg)
		Blue Swivel	Green Swivel			
	Blue Nozzle		18030481	1000	445X340X285	16.00
	Red Nozzle		18030534	1000	445X340X285	16.00
	White Nozzle		18030535	1000	445X340X285	16.00

## AQ-206 Aquatuff Excel Micro Sprinkler


Product	Description	Automat Erp Codes		PCS/BOX	Box Dimension (mm)	Gross Weight (Kg)
	Orange Nozzle	18030246		1500	440X340X210	9.8

## AQ-206PC Flow Regulating Micro Sprinkler

Product	Description	Automat ERP Codes						PCS/BOX	Box Dimension (mm)	Gross Weight (Kg)
		Barb Connection		Threaded Connection		Pushfit Connection				
		Short Range	Large Range	Short Range	Large Range	Short Range	Large Range			
	Green	18030381	18030441	18030517	18030521	18030525	18030529	800	445X340X285	13.58

# Weight Chart


## AQ-210 Aquamic Range Rotor Micro Sprinkler

Product	Description	Automat ERP Codes		PCS/ BOX	Box Dimension (mm)	Gross Weight (Kg)
	GREEN NOZZLE	18030378		2000	400X300X350	10.9


## AQ-210 Aquamic/inverted Mist Sprayer Micro Sprinkler

Product	Description	AUTOMAT ERP CODES		PCS/ BOX	Box Dimension (mm)	Gross Weight (Kg)
			BLACK MISTER SWIVEL			
	PURPLE NOZZLE	18030081		2000	400X300X350	10.91


## AQ-210 Aquamic Inverted Rotor Sprayer Micro Sprinkler

Product	Description	Automat ERP Codes		PCS/ BOX	Box Dimension (mm)	Gross Weight (Kg)
			Grey Swivel			
	GREEN NOZZLE	18030076		2000	400X300X350	10.91


## AQ-211 Aquamic Excel Micro Sprinkler 3/8" Thread Connection

Product	Description	Automat ERP Codes		PCS/ BOX	Box Dimension (mm)	Gross Weight (Kg)
	GREEN NOZZLE	18030485		1000	375X295X246	10.5


## AQ-220 Aquafly Micro Sprinkler



Product	Description	Automat ERP Codes		PCS/ BOX	Box Dimension (mm)	Gross Weight (Kg)
			Grey Swivel			
	Purple Nozzle	18030283		400	400X300X350	13.31

## PVC Micro Tube

Product	Description	PVC		Double layer LLDPE	PE	PCS/ BOX	box/coil Dimension (mm)	Gross Weight (kg) (PVC)
		White	Black	White	Black			
	3mm X 5mm 100 MTR Length	12580189	12580188	12580194	12580195	1COIL	260x260x100	2.06
	4mm X 6mm 100 MTR Length	12580191	12580190	12580196	12580197	1COIL	260x260x110	2.92
	4mm X 7mm 100 MTR Length	12580193	12580192	12580198	12580199	1COIL	310x310x100	3.97
	8mm X 12mm 60 MTR Length		12580200			1COIL	350x350x90	5.07


















# Weight Chart

Fogger								
Product	Description	Automat Erp Codes				PCS/ BOX	Box Dimension (mm)	Gross Weight (kg)
		Black Body		White Body				
		Blue Nozzle	Green Nozzle	Blue Nozzle	Green Nozzle			
	One Way Fogger Only	25020001	25020004	25020096	25020092	2000	440X340X210	7.9
	Two Way Fogger Only	25020002	25020005	25020097	25020078	1000	440X340X210	10.3
	Four Way Fogger Only	25020003	25020006	25020098	25020076	500	440X340X210	9.7
	One Way Fogger With Complete Tube Assembly (30cm PVC Tube + Pushfit LPD + Stabiliser + Pin Connector)	25020028	25020017	25020095	25020074	100	465X465X290	7.98
	Two Way Fogger With Complete Tube Assembly (30cm PVC Tube + Pushfit LPD + Stabiliser + Pin Connector)	25020027	25020018	25020094	25020081	100	465X465X290	8.86
	Four Way Fogger With Complete Tube Assembly (30cm PVC Tube + Pushfit LPD + Stabiliser + Pin Connector)	25020019	25020016	25020073	25020072	100	465X465X290	9.76

Accessories						
Product	Description	Automat ERP Codes		PCS/ BOX	Box Dimension (mm)	Gross Weight (Kg)
	Tube Assembly (pin Connector + 60cm PVC Tube + Butterfly Adaptor)	18030133		750	540X395X250	14.75
	Tube Assembly ( Pin Connector + 60cm PVC Tube + 3/8" threaded Adaptor)	18030249		750	540X395X250	14.9
	Tube Assembly ( Pin Connector + 60cm PVC Tube + Female Bayonet)	18030092		750	540X395X250	14.1
	Tube Assembly ( Pin Connector + 60cm PVC Tube + Pushfit Adaptor)	18030151		750	540X395X250	14.25
	Tube Assembly ( Pin Connector + 60cm Pvc Tube)	18030065		750	540X395X250	13.75
	Tube Assembly ( Pin Connector + 30cm PVC Tube + Stabiliser + Male Bayonet)	25020099		250	440X350X285	10.5
	Tube Assembly ( Pin Connector + 30cm PVC Tube + Stabiliser + Female Bayonet)	18030094		250	440X350X285	10.5
	Tube Assembly(male/female Bayonet + 30cm Pvc Tube + Stabiliser + Male Bayonet)	25020100		250	440X350X285	10.5
	Tube Assembly (male/female Bayonet+ 30cm PVC Tube + Stabiliser + Pushfit Adaptor)	25020101		250	440X350X285	10.5
	Tube Assembly(male/female Bayonet + 30cm Pvc Tube + Stabiliser + Female Bayonet)	18030107		250	440X350X285	10.5



# Weight Chart

Accessories					
Product	Description	Automat ERP Codes	PCS/BOX	Box Dimension (mm)	Gross Weight (Kg)
	4 X 7 Pushfit Butterfly Adaptor	12080005	3000	440 x 350 x 285mm	12.3
	7 X 10 Pushfit Butterfly Adaptor	12080055	2000	440 x 350 x 285mm	8.7
	Female Bayonet	12070007	10000	440 x 350 x 285mm	12.9
	Female Bayonet Quick Thread	12070030	10000	440 x 350 x 285mm	12.9
	4 X 7 Pin Connector	12070009	25000	440 x 350 x 285mm	15.9
	6 X 8 Pin Connector	12630004	25000	440 x 350 x 285mm	15.9
	7 X 10 Pin Connector	12590017	10000	440 x 350 x 285mm	13.9
	½" female Bush Adaptor	12070026	2500	440 x 350 x 285mm	11.4
	¾" threaded Adaptor (quick Thread)	12720002	1500	440 x 350 x 285mm	6.9
	¾" threaded Adaptor (6 X 8mm Barb)	12630009	1500	440 x 350 x 285mm	7.2
	Male Bayonet	12070008	10000	440 x 350 x 285mm	9.9
	Quick Thread Pushfit Connector	12080030	10000	440 x 350 x 285mm	7.9
	Bayonet Plug	12070021	10000	440 x 350 x 285mm	8.9
	6 X 8 Bush	12080014	10000	440 x 350 x 285mm	10.9
	50cm Stake	12070025	500	540 x 350 x 315mm	15.6
	43cm Stake	12070023	400	440 x 350 x 285mm	9.5
	35 cm Stake	12080048	300	540 x 350 x 315mm	9.4
	34cm Stake	12070028	500	540 x 350 x 315mm	10.9
	Universal Stake	12090004	350	540 x 350 x 315mm	12.53
	PVC Riser Pipe With 3-Finger Spike And Tube (1mtr)	18030458	50	1220x1110x1130mm	12.7

## Warranty & Disclaimer

Automat products are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts, and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects in design or breach of warranty.

