

Tiran™

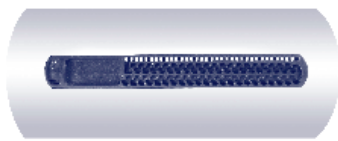
16009

For use in row crops

- Superior TurboNet™ flow regime
- Wide filtration area
- Wide cross-section improves clogging resistance



Tiran™ facets



Internal emitter protected from mechanical damage.
Injected molded drippers construction ensuring uniform drippers and very low CV



Large filtration area to ensure optimal performance even under harsh water conditions



Large, wide, and deep flow path cross-section, to minimize clogging and ensure exact flow rate in all conditions

Drippers technical data

Nominal flow rate (l/h.)*	Water passages dimensions Width-Depth-Length (mm x mm x mm)	Filtration area (mm ²)	Constant K	Exponent x
1.00	0.60 x 0.80 x 75	70	0.348	0.46
1.50	0.73 x 0.85 x 75	70	0.520	0.46
2.00	0.76 x 1.08 x 75	70	0.693	0.46
4.00	1.06 x 1.40 x 75	76	1.387	0.46
8.00	1.68 x 1.40 x 37	76	2.774	0.46

* At 1.0 bar

Drippers flow vs. pressure

Model Nominal flow rate*	Flow rate (l/h.) at pressure (bar)				
	1.00	1.50	2.00	2.50	3.00
1.00	1.00	1.21	1.38	1.53	1.66
1.50	1.50	1.81	2.06	2.29	2.49
2.00	2.00	2.41	2.75	3.05	3.31
4.00	4.00	4.82	5.50	6.10	6.63
8.00	8.00	9.64	11.00	12.19	13.26

* At 1.0 bar

Dripperlines technical data

Model	Inside diameter (mm.)	Wall Thickness (mm.)	Outside diameter (mm.)	Max. working pressure (bar)	KD
16009	14.20	0.90	16.00	3.00	0.40

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Performance Data

Tiran™ 16009 - I.D. 14.20 mm. - Inlet pressure 1.4 bar - Nominal flow rate 1.00 l/h.

Maximum lateral length (meter) at 10% Flow variation - spacing between drippers (meter)

	Slope %	Spacing between drippers (m.)						
		0.2	0.3	0.4	0.5	0.6	0.75	1.00
uphill	-2	68	86	100	111	120	130	140
	-1	74	99	119	137	151	170	196
	0	82	113	140	166	189	221	270
downhill	1	88	124	157	189	218	262	329
	2	93	133	170	207	241	291	369

Tiran™ 16009 - I.D. 14.20 mm. - Inlet pressure 1.4 bar - Nominal flow rate 1.50 l/h.

Maximum lateral length (meter) at 10% Flow variation - spacing between drippers (meter)

	Slope %	Spacing between drippers (m.)						
		0.2	0.3	0.4	0.5	0.6	0.75	1.00
uphill	-2	54	71	84	94	103	113	126
	-1	58	79	96	110	123	140	163
	0	63	87	108	128	146	171	209
downhill	1	66	94	118	142	164	196	245
	2	70	99	127	153	178	215	272

Tiran™ 16009 - I.D. 14.20 mm. - Inlet pressure 1.4 bar - Nominal flow rate 2.00 l/h.

Maximum lateral length (meter) at 10% Flow variation - spacing between drippers (meter)

	Slope %	Spacing between drippers (m.)						
		0.2	0.3	0.4	0.5	0.6	0.75	1.00
uphill	-2	46	61	73	83	91	101	114
	-1	49	66	81	94	105	120	141
	0	52	72	90	106	121	142	173
downhill	1	55	77	97	116	134	160	199
	2	57	81	103	124	145	173	219

Tiran™ 16009 - I.D. 14.20 mm. - Inlet pressure 1.4 bar - Nominal flow rate 4.00 l/h.

Maximum lateral length (meter) at 10% Flow variation - spacing between drippers (meter)

	Slope %	Spacing between drippers (m.)						
		0.2	0.3	0.4	0.5	0.6	0.75	1.00
uphill	-2	31	41	50	58	64	73	85
	-1	32	44	54	63	71	82	97
	0	33	46	57	68	77	91	111
downhill	1	34	48	60	72	83	98	122
	2	35	50	63	76	88	104	131

Tiran™ 16009 - I.D. 14.20 mm. - Inlet pressure 1.4 bar - Nominal flow rate 8.00 l/h.

Maximum lateral length (meter) at 10% Flow variation - spacing between drippers (meter)

	Slope %	Spacing between drippers (m.)						
		0.2	0.3	0.4	0.5	0.6	0.75	1.00
uphill	-2	20	27	33	39	44	50	60
	-1	20	28	35	41	46	54	65
	0	21	29	36	43	49	58	70
downhill	1	21	30	38	45	52	61	75
	2	22	31	39	47	53	64	79

For more information , please contact Netafim Technical Department or connect to our website at : www.netafim.com

Packaging Data

Tiran™ on carton coils	Wall thickness (mm.)	Distance between drippers (meter)	Coil length (meter)	Average coil weight* (kg.)	Coils in a 40 feet container (units)	Total in a 40 feet container (meters)
16009	0.9	0.20 to 1.00	500	18.3	330	165000

* According to drippers spacing

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