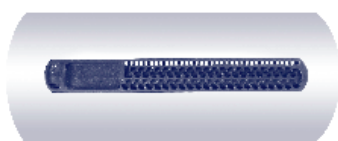


For use in row crops

- 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
1.05	0.60 x 0.80 x 75	70	0.364	0.46
1.60	0.73 x 0.85 x 75	70	0.555	0.46
2.10	0.76 x 1.08 x 75	70	0.728	0.46
4.20	1.06 x 1.40 x 75	76	1.456	0.46
8.40	1.68 x 1.40 x 37	76	2.913	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
1.05	1.05	1.27	1.44	1.60	1.74
1.60	1.60	1.93	2.20	2.44	2.65
2.10	2.10	2.53	2.89	3.20	3.48
4.20	4.20	5.06	5.78	6.40	6.96
8.40	8.40	10.12	11.56	12.81	13.93

* At 1.0 bar

Dripperlines technical data

Model	Inside diameter (mm.)	Wall Thickness (mm.)	Outside diameter (mm.)	Max. working pressure (bar)	KD
16012	13.70	1.20	16.10	4.00	0.45

For use in row crops

Performance Data

Tiran™ 16012 - I.D. 13.70 mm. - Inlet pressure 1.4 bar - Nominal flow rate 1.05 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	62	80	94	105	113	124	135
	-1	68	91	110	126	140	158	183
	0	74	102	127	150	171	201	246
downhill	1	78	111	141	170	196	235	295
	2	83	119	152	185	215	260	330

Tiran™ 16012 - I.D. 13.70 mm. - Inlet pressure 1.4 bar - Nominal flow rate 1.60 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	49	65	77	87	95	106	119
	-1	52	71	86	100	112	128	150
	0	56	77	96	114	130	153	187
downhill	1	59	83	105	126	145	173	217
	2	61	87	112	135	157	189	240

Tiran™ 16012 - I.D. 13.70 mm. - Inlet pressure 1.4 bar - Nominal flow rate 2.10 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	42	56	67	77	85	95	108
	-1	44	60	74	86	97	110	131
	0	47	65	81	96	109	128	157
downhill	1	49	69	87	104	120	143	179
	2	51	72	92	111	129	155	195

Tiran™ 16012 - I.D. 13.70 mm. - Inlet pressure 1.4 bar - Nominal flow rate 4.20 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	28	38	46	53	59	68	79
	-1	29	39	48	57	64	74	89
	0	30	41	52	61	70	82	100
downhill	1	30	43	54	65	74	89	110
	2	31	44	56	68	78	94	117

Tiran™ 16012 - I.D. 13.70 mm. - Inlet pressure 1.4 bar - Nominal flow rate 8.40 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	18	25	30	36	40	47	55
	-1	18	25	32	37	42	49	59
	0	19	26	33	39	44	52	64
downhill	1	19	26	33	40	46	55	68
	2	19	27	35	41	48	57	71

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)
16012	1.20	0.20 to 1.00	400	19.2	352	140800

* According to drippers spacing