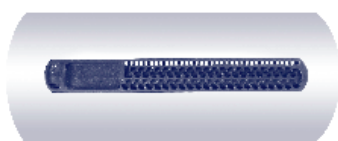


For use in row crops

- 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
20012	17.50	1.20	19.90	4.00	0.10

For use in row crops

Performance Data

Tiran™ 20012 - I.D. 17.50 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	90	110	124	134	140	148	155
	-1	104	135	159	179	195	215	241
	0	120	163	202	237	269	314	383
downhill	1	132	186	236	282	327	391	491
	2	142	203	260	315	367	443	479

Tiran™ 20012 - I.D. 17.50 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	74	93	106	117	125	134	144
	-1	82	108	128	146	161	180	205
	0	91	124	154	181	205	240	292
downhill	1	98	138	174	208	241	287	359
	2	105	149	190	229	266	320	405

Tiran™ 20012 - I.D. 17.50 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	64	82	95	106	114	124	135
	-1	70	92	111	127	141	159	183
	0	76	104	129	152	172	201	245
downhill	1	82	114	144	172	197	236	294
	2	86	122	155	187	217	260	329

Tiran™ 20012 - I.D. 17.50 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	43	57	68	77	85	95	107
	-1	46	62	75	87	97	111	130
	0	49	66	82	97	110	129	157
downhill	1	51	71	88	106	121	143	178
	2	53	74	94	113	130	155	195

Tiran™ 20012 - I.D. 17.50 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	29	38	46	54	59	68	79
	-1	30	40	50	58	65	75	89
	0	31	42	52	62	70	83	100
downhill	1	32	44	55	63	75	88	109
	2	33	45	57	65	79	93	117

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)
20012	1.20	0.20 to 1.00	300	18.9	352	105600

* According to drippers spacing