

TIRAN 12012

For use in row crops

- Superior Turbonet® flow regime
- Wide filtration area
- Wide cross section improves clogging resistance

DRIPPERS TECHNICAL DATA

Maximum working pressure (bar)	nominal flow rate* (l/h)	water passage dimensions width-depth-length (mm)	filtration area (mm ²)	coefficient K	exponent X
4.00	1.05	0.60x0.80x75.0	70.0	0.364	0.46
	1.60	0.73x0.85x75.0	70.0	0.555	0.46
	2.10	0.76x1.08x75.0	70.0	0.728	0.46
	4.20	1.06x1.40x75.0	76.0	1.456	0.46
	8.40	1.68x1.40x37.0	76.0	2.913	0.46

* At 1 bar pressure

DRIPPERS FLOW VS. PRESSURE

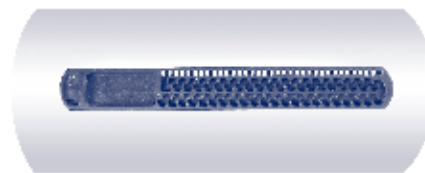
Flow rate (l/h) at pressure (bar)

Model	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

DRIPPERLINE TECHNICAL DATA

Model	inside Ø (mm)	wall thickness (mm)	outside Ø (mm)	max. working pressure (bar)	KD
12012	10.20	1.20	12.60	4.0	0.70

Tiran dripper



Internal emitter protected from mechanical damage

Tiran facets

Injected molded dripper 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



THICK WALL DRIPPERLINES

Tiran 12012 • I.D. Ø 10.20 mm • Inlet pressure 1.4 bar • Nominal flow rate 1.05 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	37	43	49	58	63	67	74	83	90	94
	-1	39	46	53	64	70	75	84	97	107	114
	0	41	49	56	70	77	84	95	112	128	137
	1	43	52	61	76	83	91	105	125	144	155
downhill	2	44	54	63	79	87	96	111	134	155	170

Tiran 12012 • I.D. Ø 10.20 mm • Inlet pressure 1.4 bar • Nominal flow rate 1.60 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	28	34	38	46	50	54	60	68	75	79
	-1	30	35	41	50	54	59	66	77	86	91
	0	31	37	43	54	59	64	73	86	97	105
	1	32	39	45	57	63	69	78	93	107	116
downhill	2	33	40	47	59	66	72	82	98	113	124

Tiran 12012 • I.D. Ø 10.20 mm • Inlet pressure 1.4 bar • Nominal flow rate 2.10 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	24	29	33	40	43	47	52	59	66	69
	-1	25	30	34	42	46	50	56	65	73	78
	0	26	31	36	45	49	54	61	72	82	88
	1	27	32	38	48	52	57	66	77	89	96
downhill	2	28	34	39	49	54	59	68	81	94	102

Tiran 12012 • I.D. Ø 10.20 mm • Inlet pressure 1.4 bar • Nominal flow rate 4.20 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	16	19	22	27	29	31	35	41	46	49
	-1	16	19	22	28	30	33	37	44	49	52
	0	16	20	23	29	32	34	39	46	52	56
	1	17	20	23	30	33	36	41	49	56	60
downhill	2	17	21	24	31	34	37	42	50	58	63

Tiran 12012 • I.D. Ø 10.20 mm • Inlet pressure 1.4 bar • Nominal flow rate 8.40 l/h

Max. lateral length (m) at 10% flow variation / spacing between drippers (m)

Slope %		0.20	0.25	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00
uphill	-2	10	12	14	18	19	21	23	27	31	33
	-1	10	12	14	18	19	21	24	29	32	34
	0	10	13	15	18	20	22	25	29	33	36
	1	11	13	15	19	21	23	26	31	35	38
downhill	2	11	13	15	19	21	23	26	32	36	39



Tiran	Wall thickness (mm)	Distance between drippers (m)	Coil length (m)	Average coil weight* (kg)	Coils in a 40 feet container (units)	Total in a 40 feet container (m)
12012	1.20	0.20 to 0.75	500	16.5	330	165000

* According to drippers spacing