

Leach Line™ X

Non-pressure-compensating integral dripper with superior clogging resistance, designed for heap leaching applications in mining environments.



Benefits & Features

Superior clogging resistance

The TurboNet™ labyrinth features:

- Deep, wide and large cross-section flow passages
- Reduced sensitivity to particulate intrusion
- Continuous internal flushing action

This design minimizes clogging risk and ensures consistent leaching performance throughout the system lifespan.

An extra-large filtration area prevents suspended particles from entering the dripper, maintaining dependable performance across a wide range of solution quality levels.

Long-lasting performance under harsh solution conditions

Engineered to operate reliably with challenging solution quality, including high levels of suspended solids and chemical exposure.

The self-flushing TurboNet™ labyrinth continuously evacuates debris during operation, maintaining stable flow conditions over time.

Hydraulic performance adaptability

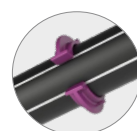
Flow rate varies with pressure, following a pressure-dependent flow regime, enabling flexible hydraulic design tailored to specific heap conditions.

A low flow exponent (X) improves distribution uniformity along the dripline and allows longer run lengths under comparable operating pressures, contributing to more consistent solution application and improved metal recovery.

Anti-migration clip (optional)

Prevents downslope solution migration in sloped or uneven heap geometries, maintaining uniform distribution.

Pre-installed during manufacturing, reducing field labor and installation time.



Applications



Acid & Alkaline Solutions



Acid & Alkaline Solutions



Evaporation Systems

- Heap leaching of copper, gold, silver and other metals.
- Installation on top of heap leach pads, either on-surface or sub-surface.
Suitable for side slope applications when used in combination with dedicated accessories, ensuring uniform solution distribution.
- Applicable for primary and secondary leaching cycles. Designed for large-scale heaps with long dripline runs and variable topography.



Specifications

- Operating pressure range: Defined according to dripline diameter and wall thickness (refer to tables).
- Flow regime: Non-pressure-compensating (pressure-dependent flow).

Filtration recommendation: A filtration grade of 200 micron / 80 mesh is recommended to ensure long-term operational reliability, maintain optimal hydraulic performance and achieve high solution distribution uniformity.

Netafim™ provides a comprehensive range of non-corrosive filtration systems engineered for mining environments, suitable for installation at the mainline or sub-block level across the heap.

- Labyrinth technology: TurboNet™ with large flow passages for enhanced clogging resistance.
- Manufacturing integration: Weldable into thick-wall driplines; 0.90, 1.00, 1.20 mm.
- Hydraulic uniformity: Injection-molded dripper with low coefficient of variation (CV), ensuring reliable distribution uniformity under field conditions.
- Durability: High UV resistance. Resistant to chemicals typically used in heap leaching operations.
- Standards compliance: Compliant with ISO 9261.
- Driplines are black with two white stripes.

Drippers technical data

Flow rate* 1.2 WT (l/h)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm²)	Constant K	Exponent X	Recommended filtration (micron)/(mesh)
1.05	0.60 x 0.80 x 75	70	0.364	0.46	200/80
1.50	0.73 x 0.90 x 75	70	0.520	0.46	200/80
2.10	0.76 x 1.09 x 75	70	0.728	0.46	200/80
4.20	1.06 x 1.40 x 75	76	1.456	0.46	200/80
8.40	1.68 x 1.40 x 37	76	2.913	0.46	200/80

*Flow rate at 1.0 bar pressure WT = dripline wall thickness

Flow rate* 0.9-1.0 WT (l/h)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm²)	Constant K	Exponent X	Recommended filtration (micron)/(mesh)
1.00	0.60 x 0.80 x 75	70	0.348	0.46	200/80
1.50	0.73 x 0.90 x 75	70	0.520	0.46	200/80
2.00	0.76 x 1.09 x 75	70	0.693	0.46	200/80
4.00	1.06 x 1.40 x 75	76	1.387	0.46	200/80
8.00	1.68 x 1.40 x 37	76	2.774	0.46	200/80

*Flow rate at 1.0 bar pressure WT = dripline wall thickness

Both the K constant and the X exponent are fundamental hydraulic parameters used to calculate the actual flow rate of each dripper at a given operating pressure as detailed in the following pages.

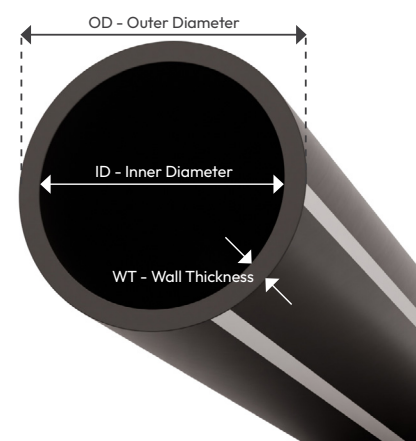


Driplines technical data

Model	Inner diameter (mm)	Wall thickness (mm)	Outer diameter (mm)	Max. working pressure (bar)	Max. flushing pressure (bar)	Kd
16009	14.20	0.9	16.00	3.0	3.9	0.40
16010	14.20	1.0	16.20	3.5	4.6	0.40
16012	14.20	1.2	16.60	4.0	5.2	0.40
20010	17.50	1.0	19.50	3.5	4.6	0.10
20012	17.50	1.2	19.90	4.0	5.2	0.10

Kd: An integral dripper installed inside the dripline creates a localized disturbance in the water flow, generating minor head losses (Kd) as its shape and volume partially obstruct the internal flow path. The lower the Kd value for a given inner diameter, the longer the driplines can be designed under similar operating conditions.

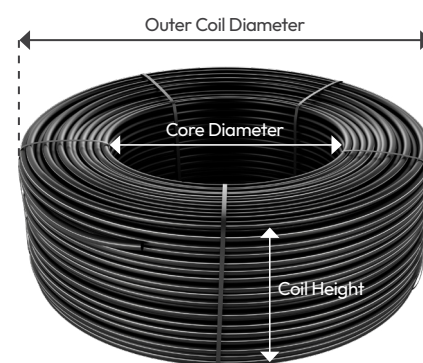
Max. flushing pressure: The maximum permissible flushing pressures shown in the table apply to continuous flushing cycles of up to 30 minutes, with the ends of at least five driplines opened for flushing.



Driplines package data (on bundled coil)

Model	Wall thickness (mm)	Distance between drippers (m)	Coil length (m)	Average* coil weight (kg)	Outer coil diameter (cm)	Core coil diameter (cm)	Coil height (cm)
16009	0.9	0.15 to 1.00	500	20.7	84	41	27
16010	1.0	0.15 to 1.00	500	23.0	84	41	27
16012	1.2	0.15 to 1.00	400	22.3	78	41	28
20010	1.0	0.15 to 1.00	300	16.7	84	50	27
20012	1.2	0.15 to 1.00	300	20.2	84	50	27

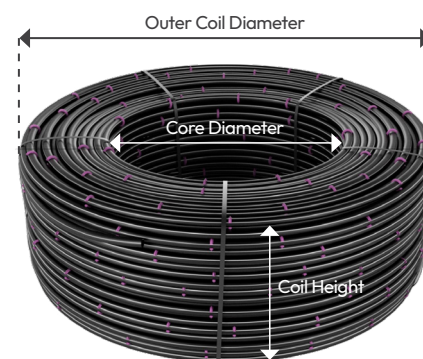
*Values shown are average weights and may vary due to dripper spacing and extrusion tolerances. Refer to the official Netafim™ disclaimers for details.



Driplines package data (on bundled coil) with assembled anti-migration clips

Model	Wall thickness (mm)	Distance between drippers (m)	Coil length (m)	Average* coil weight (kg)	Outer coil diameter (cm)	Core coil diameter (cm)	Coil height (cm)
16009	0.9	0.15 to 1.00	300	13.0	84	45	27
16010	1.0	0.15 to 1.00		15.0			
16012	1.2	0.15 to 1.00		17.9			
20010	1.0	0.15 to 1.00		18.0			
20012	1.2	0.15 to 1.00		21.5			

*Values shown are average weights and may vary due to dripper spacing and extrusion tolerances. Refer to the official Netafim™ disclaimers for details.



Driplines package data (on bundled coil) within container

Model	Coil length (m)	Coils in a 40 foot container (units)	Total in a 40 foot container (m)
16009	500	330	165000
16010	500	330	165000
16012	400	352	140800
20010	300	330	99000
20012	300	330	99000

Driplines package data (on bundled coil) with assembled anti-migration clips

Model	Coil length (m)	Coils in a 40 foot container (units)	Total in a 40 foot container (m)
16009	300	330	99000
16010			
16012			
20010			
20012			

A standard 40-foot container has internal dimensions of 12.0 m (L) × 2.35 m (W) × 2.39 m (H).
In certain cases, a 40-foot High Cube container may be used, providing an increased internal height of 2.69 m, allowing improved volume utilization depending on product configuration.



Catalog numbers

Because of the wide range of available configurations (different flow rates, emitter spacings, coil lengths and additional specifications), the final catalog number must be confirmed with your local Netafim™ representative after completing the product definition.

Complete the product specification using the options provided in the following flow chart.

How to use: Select one option from each category in the chart to define the most appropriate product configuration for your application.

Product name		Commercial diameter (mm)		Wall thickness (mm)		Flow rate (l/h) 1.2 mm WT		Distance between drippers (m)		Coil length (m)		Special features	
Leach Line™ X	LEACH LINE X	16	16	0.9	009	1.05	1.05L/H	0.2	0.20M	Model 16009	500M	No added	-
		20	20	1.0	010	1.50	1.50L/H	0.3	0.30M	Model 16010	500M	Clip	CL
				1.2	012	2.10	2.10L/H	0.4	0.40M	Model 16012	400M	Other	XXX
						4.20	4.20L/H	0.5	0.50M	Model 20010	300M	*Other features available upon request. Consult your local Netafim™ distributor.	
						8.40	8.40L/H	0.6	0.60M	Model 20012	300M		
						Flow rate (l/h) 0.9-1.0 mm WT		*Other distances between drippers can be ordered.		Coil length with assembled clips (m)			
						1.00	1.00L/H			All models	300M		
						1.50	1.50L/H						
						2.00	2.00L/H						
						4.00	4.00L/H						
						8.00	8.00L/H						
LEACH LINE X 16012 1.50L/H 0.30M 400M													

Catalog description example

A Netafim™ catalog number consists of two components:

- The first five digits, identifying the material group.
- The following six digits, identifying the specific product within that group.

Material group numbers associated with the products featured in this product sheet include:

Dripline	Material group (MG)	Brown dripline	Material group (MG)
Leach Line™ X 16009	12320	Leach Line™ X 20010	12400
Leach Line™ X 16010	12310	Leach Line™ X 20012	12420
Leach Line™ X 16012	12300		

Drippers flow rate vs working pressure

To determine the actual flow rate of a dripper under different operating pressures, the following equation is applied:

$$Q = K \times P^X$$

Where:

Q = Dripper flow rate (liters per hour)

K = Dripper-specific flow constant (manufacturer-defined)

P = Actual working pressure (meters of water column)

X = Dripper-specific exponent (manufacturer-defined)

In accordance with ISO 9261, manufacturers must declare both the K constant and the X exponent for each dripper model.

Non-pressure-compensated drippers deliver a flow rate that varies with operating pressure, following the relationship defined by the formula presented above.

To provide a general understanding of how flow rate responds to changes in operating pressure, tables are provided showing the dripper flow rate at different working pressures for each model in this document.

Leach Line™ X flow (l/h) vs pressure (bar)

Dripper	Flow rate* (l/h)	Working pressure (bar)									
		0.40	0.60	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00
Leach Line™ X 1.2 mm WT	1.05	0.69	0.83	0.95	1.05	1.27	1.44	1.60	1.74	1.87	1.99
	1.50	0.98	1.19	1.35	1.50	1.81	2.06	2.29	2.49	2.67	2.84
	2.10	1.38	1.66	1.89	2.10	2.53	2.89	3.20	3.48	3.74	3.97
	4.20	2.75	3.32	3.79	4.20	5.06	5.78	6.40	6.96	7.47	7.95
	8.40	5.51	6.64	7.58	8.40	10.12	11.56	12.81	13.93	14.95	15.90

* Nominal flow rate at 1.0 bar.

Dripper	Flow rate* (l/h)	Working pressure (bar)									
		0.20	0.40	0.60	0.80	1.00	1.50	2.00	2.50	3.00	3.50
Leach Line™ X 0.9-1.0 mm WT	1.00	0.48	0.66	0.79	0.91	1.00	1.21	1.38	1.53	1.66	1.79
	1.50	0.72	0.98	1.19	1.35	1.50	1.81	2.06	2.29	2.49	2.67
	2.00	0.95	1.31	1.58	1.80	2.00	2.41	2.75	3.05	3.31	3.56
	4.00	1.91	2.62	3.16	3.61	4.00	4.82	5.50	6.10	6.63	7.12
	8.00	3.82	5.25	6.32	7.22	8.00	9.64	11.00	12.19	13.26	14.24

* Nominal flow rate at 1.0 bar.

Maximum driplines length

To determine the maximum feasible run length for a given dripline, considering all hydraulic factors that influence flow within the dripline, Netafim™ uses proprietary design software based on the Darcy-Weisbach equations, supported by decades of engineering expertise and long-standing collaboration with leading academic institutions.

The precise maximum run length for any installation must be calculated using this dedicated design software, which evaluates all relevant hydraulic parameters across the system.

Minor differences may occur between design tools available on the market, due to variations in calculation methodologies and underlying design assumptions.

To calculate the maximum feasible dripline length, taking into account the required variables, such as flow rate and emitter spacing, pipe inner diameter, field slope, inlet pressure and other parameters, Netafim™ HydroCalc design software can be used.



The following tables present the maximum dripline lengths that can be used in driplines to achieve optimal performance.

The values provided here are intended to offer a preliminary reference. The actual maximum dripline length must be calculated by a hydraulic engineer responsible for designing the complete system, in order to account for additional constraints and site-specific limitations.

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16009/16010 • ID 14.2 mm • Kd 0.40 • Flow rate 1.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	65	83	96	107	115	122	126	131	135
	1%	71	95	114	131	145	158	169	179	188
Flat terrain	0	78	108	134	159	181	202	222	241	259
Downhill	-1%	83	118	151	182	212	242	270	298	326
	-2%	89	130	169	208	246	284	323	361	400

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16009/16010 • ID 14.2 mm • Kd 0.40 • Flow rate 1.50 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	52	68	80	91	99	106	112	117	121
	1%	56	75	92	106	118	130	139	149	157
Flat terrain	0	60	83	104	123	140	156	171	186	201
Downhill	-1%	63	89	113	136	158	179	200	220	240
	-2%	66	96	124	151	178	204	230	257	282

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16009/16010 • ID 14.2 mm • Kd 0.40 • Flow rate 2.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	44	59	70	80	88	95	101	106	110
	1%	47	64	78	90	101	111	121	130	136
Flat terrain	0	50	69	86	102	116	130	143	155	167
Downhill	-1%	52	73	93	111	128	146	162	178	194
	-2%	54	78	100	122	142	163	183	203	223

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16009/16010 • ID 14.2 mm • Kd 0.40 • Flow rate 4.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	30	40	48	56	63	69	74	78	83
	1%	31	42	52	61	68	76	82	88	94
Flat terrain	0	32	44	55	66	75	84	91	100	107
Downhill	-1%	32	46	58	69	79	90	99	109	118
	-2%	33	47	60	73	85	97	108	119	129

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16009/16010 • ID 14.2 mm • Kd 0.40 • Flow rate 8.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	19	26	33	38	43	48	52	58	59
	1%	20	27	34	40	46	50	55	60	64
Flat terrain	0	20	28	36	42	48	54	59	65	70
Downhill	-1%	21	29	36	43	50	56	62	68	73
	-2%	21	29	38	45	52	59	66	72	78

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16012 • ID 14.2 mm • Kd 0.40 • Flow rate 1.05 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	63	81	94	105	113	120	126	130	134
	1%	69	93	112	128	142	155	166	176	185
Flat terrain	0	76	105	130	154	176	196	215	234	252
Downhill	-1%	81	114	146	176	205	233	261	288	314
	-2%	86	125	163	201	237	274	310	347	384

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16012 • ID 14.2 mm • Kd 0.40 • Flow rate 1.50 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	50	66	78	89	97	103	110	114	119
	1%	54	73	88	103	114	125	135	144	152
Flat terrain	0	58	80	100	118	134	150	165	179	193
Downhill	-1%	60	85	108	130	151	171	190	210	228
	-2%	63	91	118	144	169	194	218	243	267

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16012 • ID 14.2 mm • Kd 0.40 • Flow rate 2.10 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	43	57	68	78	86	92	99	104	108
	1%	46	62	76	88	99	109	118	125	133
Flat terrain	0	48	67	84	99	113	126	138	150	162
Downhill	-1%	50	71	90	108	124	141	156	172	187
	-2%	52	75	96	117	137	157	176	195	214

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16012 • ID 14.2 mm • Kd 0.40 • Flow rate 4.20 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	29	39	47	55	61	67	72	77	81
	1%	30	41	50	59	67	74	80	86	92
Flat terrain	0	31	43	54	64	73	81	89	96	104
Downhill	-1%	31	44	56	67	77	87	96	105	114
	-2%	32	46	58	71	82	93	104	114	125

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 16012 • ID 14.2 mm • Kd 0.40 • Flow rate 8.40 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	19	26	32	37	42	46	60	54	58
	1%	19	27	33	39	44	49	54	59	63
Flat terrain	0	20	27	34	41	47	53	58	63	68
Downhill	-1%	20	28	35	42	48	54	60	66	71
	-2%	20	29	36	44	50	57	63	69	75

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20010 • ID 17.5 mm • Kd 0.140 • Flow rate 1.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	93	111	123	132	137	141	145	148	150
	1%	110	139	161	179	195	207	218	229	236
Flat terrain	0	128	170	208	243	274	304	332	359	384
Downhill	-1%	143	199	251	301	349	397	444	491	537
	-2%	160	229	298	366	434	503	572	640	708

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20010 • ID 17.5 mm • Kd 0.140 • Flow rate 1.50 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	78	95	108	117	124	130	134	138	141
	1%	88	113	132	149	163	176	186	196	205
Flat terrain	0	99	132	161	188	212	235	257	278	298
Downhill	-1%	108	148	186	222	256	290	322	356	387
	-2%	117	166	213	260	305	351	397	443	489

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20010 • ID 17.5 mm • Kd 0.140 • Flow rate 2.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	67	84	96	106	113	119	125	130	133
	1%	75	96	114	129	142	154	164	174	182
Flat terrain	0	82	110	134	156	177	195	214	231	248
Downhill	-1%	88	121	151	180	207	233	259	284	309
	-2%	95	133	170	205	240	274	309	343	377

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20010 • ID 17.5 mm • Kd 0.140 • Flow rate 4.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	46	59	70	79	86	92	98	103	107
	1%	49	65	78	89	99	109	117	124	131
Flat terrain	0	53	71	86	101	113	126	138	149	159
Downhill	-1%	55	75	93	110	125	141	155	170	184
	-2%	58	80	100	120	139	157	175	194	211

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20010 • ID 17.5 mm • Kd 0.140 • Flow rate 8.00 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	31	41	48	56	62	67	71	76	80
	1%	32	43	52	60	67	74	80	86	91
Flat terrain	0	34	45	56	65	73	81	89	95	103
Downhill	-1%	35	47	58	68	78	87	96	104	113
	-2%	36	49	61	73	83	94	104	113	123

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20012 • ID 17.5 mm • Kd 0.10 • Flow rate 1.05 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	91	109	121	130	136	140	144	147	149
	1%	107	135	158	176	191	204	215	224	233
Flat terrain	0	124	166	202	236	266	295	322	348	373
Downhill	-1%	139	192	242	291	337	383	428	473	517
	-2%	154	221	286	352	416	482	501	183	175

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20012 • ID 17.5 mm • Kd 0.10 • Flow rate 1.50 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	75	92	105	115	122	127	133	136	139
	1%	85	109	128	145	158	170	182	192	200
Flat terrain	0	95	127	154	180	203	225	246	266	286
Downhill	-1%	103	142	177	211	244	276	307	338	368
	-2%	112	158	202	246	289	331	374	418	461

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20012 • ID 17.5 mm • Kd 0.10 • Flow rate 2.10 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	66	82	94	104	112	118	123	128	131
	1%	73	94	111	126	139	150	161	170	179
Flat terrain	0	79	107	130	152	171	190	207	224	241
Downhill	-1%	85	117	146	173	199	225	250	274	298
	-2%	91	128	163	197	230	263	296	329	361

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20012 • ID 17.5 mm • Kd 0.10 • Flow rate 4.20 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	45	58	68	77	84	91	96	101	105
	1%	48	63	76	87	97	106	114	121	128
Flat terrain	0	51	68	83	98	110	123	133	144	155
Downhill	-1%	53	72	90	106	121	136	150	164	178
	-2%	56	77	97	116	134	151	169	185	203

Max. lateral length (meters) at different slopes - 10% flow variation

Leach Line™ X • 20012 • ID 17.5 mm • Kd 0.10 • Flow rate 8.40 l/h • Inlet pressure 1.5 Bar

	Distance between drippers (meter)									
	Slope	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Uphill	2%	30	40	47	54	60	65	70	74	78
	1%	31	42	50	59	65	71	78	83	89
Flat terrain	0	33	44	54	63	71	78	86	93	100
Downhill	-1%	33	45	56	66	75	84	93	101	109
	-2%	34	47	59	70	80	90	100	110	119