

DRIP IRRIGATION

Smart Water Use

Features & Benefits

- Reduces water consumption
- Reduces evaporation
- Reduces plant disease
- Reduces weed growth
- Eliminates wind drift
- Eliminates 'over spray'
- Avoid water run off
- Delivers water directly to the root zone
- Not effected by water Government Restrictions in some states.
- Reduces vandalism
- Safe use of waste water
- SAVE WATER



Water where it's needed and save up to 60% of your water

Fresh Water is one of the World's scarcest commodities and as seen recently in most states of Australia worth saving through the introduction of water restrictions. Most of our potable water is consumed in domestic gardens!

Traditional watering methods implement the use of overhead sprinklers, which distribute a very fine sheet of water over the selected garden area. To date problems with this method of irrigation are:

- Misting
- Over spray
- Wind drift
- Water run off onto paths and roadways
- Water collection on garden mulch
- Easily vandalised and broken.
- Spray easily impeded by growing plants
- Promotion of plant disease and discolouration
- Restricted use through Government Water Restrictions

There is a solution to this irrigation dilemma. Drip irrigation has been extensively used throughout the world as an efficient and effective irrigation method. **Netafim** have been involved in providing many drip irrigation solutions for some of the World's biggest irrigation projects. **Netafim** can now offer you a drip irrigation alternative that:

- Reduces water consumption
- Reduces evaporation
- Reduces plant disease
- Reduces weed growth
- Eliminates wind drift
- Eliminates "over spray"
- Avoid water run-off
- Blend in with the aesthetics of your garden
- Delivers water directly to the root zone
- Not effected by Government Water Restrictions in some states.
- **SAVE WATER**

Netafim, the world leader in drip irrigation, have a range of drip products which will allow you to irrigate all lawn and garden areas in the most efficient way, from below the surface so that vandalism, injury and water wastage are no longer a concern. To truly make drip irrigation easier, **Netafim** have an extensive range of integrated drip tubes, which have drippers moulded directly into the drip tube at preset intervals. All you need to do is to simply select the right **Netafim** drip tube and roll it out across your garden or under your lawn. **Netafim** have a drip tube to make the installation of your next irrigation project fast, simple and especially water efficient.



Which Netafim drip-line do I use?

Selection guide:

Netafim manufacture a vast range of integrated drip-lines. They vary in the discharge rate and type of dripper used. The drip lines are available in both compensated and non-compensated flow as well as various tube diameters and drip spacing.

The following guide is designed to help you determine which Netafim drip-line you should use and what spacing should be used.

Drip and Drip-line spacing guide

Type of soil	Turf			Shrubs/ground cover*		
	Clay	Loam	Sand	Clay	Loam	Sand
Drip spacing (cm)	50	40	30	50	40	30
Drip-line spacing (cm)	50-60	40-50	30-40	50-100	40-100	30-100

***Note:** The large spacing range for drip line in Shrubs/ground cover situations, is a result of trying to cater for plants with either high or low water requirements. Example – plants with high water requirement will have drip lines spaced closer together than those which require a lower water requirement which will have drip lines spaced further apart. Also consideration should be given to the extent of the plants root system. Plants with small root systems will require drip line spaced closer together than plants with a large root system.

Techline sub-surface grid-layout



Mniscap garden layout



Miniscape

Miniscape is a 6mm I.D. Drip-line manufactured from high-grade UV stable L.D. polyethylene. Miniscape uses a "Turbonet" non-pressure regulating drip, which is extruded in to the internal wall of the drip tube. Its small size makes it ideal for discrete installation in garden beds and small lawns. It is flexible and easy to install making it the perfect replacement for micro sprays.

Tube Size: O.D. 8.0mm, I.D. 6.0mm. Operating Pressure: 50-300kpa (5-30m)

Flow rate (L/H)	Drip spacing (m)		
	0.15	0.30	0.50
1.9	8m	15m	22m
Max. continuous run length in metres on level ground at 150kpa (15m)			

Order Code:

LQM8 - 19B XXX - XXX
 015 30
 030 100
 050 300



Scapeline

Scapeline is a 13mm I.D. Drip-line manufactured from high-grade UV stable L.D. polyethylene. Scapeline uses a "Turbonet" non-pressure regulating drip, which is extruded into the internal wall of the drip tube. Its larger diameter makes it ideal for use in longer garden beds and larger turf applications.

Tube Size: O.D. 16.0mm, I.D. 13.0mm. Operating Pressure Range: 5-400kpa (5-40m)

Flow rate (L/H)	Drip spacing (m)		
	0.30	0.40	0.50
2.0	60m	75m	88m
Max. continuous run length in metres on level ground at 150kpa (15m)			

Order Code:

LP2016 - 2 - XXX - XXX
 030 50
 040 200
 050



Techline

Techline is a 13mm I.D. Drip-line manufactured from high-grade UV stable L.D. polyethylene. Techline uses a "RAM" pressure compensating and self-cleaning drip, which is extruded into the internal wall of the drip tube. Available with two different flow rates and an assortment of drip spacings, this tube is ideal for all landscape and turf irrigation situations. Techline with its PC drip is ideal for long run lengths and steep undulating landscape areas.

Tube Size: O.D. 16.0mm, I.D. 13.0mm. Operating Pressure Range: 50-400kpa (5-40m)

Flow rate (L/H)	Drip spacing (m)		
	0.30	0.40	0.50
1.6	100m	130m	155m
2.3	75m	100m	120m

Mx. continuous run length in metres on level ground at 250kpa (25m)

Order Code:

LR16 - XXB - XXX - XXX
 16 030 50
 23 040 200
 050



Bioline

Bioline 17 CNL is UNIQUE to Netafim ensuring 100% uniformity of wastewater over the dispersal area. It is a 17mm O.D. integrated Drip-line manufactured from high-grade UV stable purple L.D. polyethylene. Bioline uses its' unique pressure compensating, self-flushing, non-leakage drip, which is available in either a 1.6L/H or 2.3L/H discharge rate. Bioline also features high efficiency, continuous self-flushing mechanism, anti vacuum, large filter inlet and root intrusion barrier.

Tube Size: O.D. 16.4mm, I.D. 14.4mm. Operating Pressure Range: 120-350kpa (12-35m)

Flow rate (L/H)	Drip spacing (m)		
	0.30	0.40	0.50
1.6 CNL	110m	140m	170m
2.3 CNL	85m	110m	135m

Mx. continuous run length in metres on level ground at 250kpa (25m)

Order Code:

LU17 - XX - PXXXL - 200
 16 030
 23 040
 050



What else will I need?

Netafim Drip-line accessories:

Netafim also have all the accessories that you will require to install a successful drip-line system. The following items are required to ensure that your system operates the way it's supposed to with many years of trouble free operation. For further information contact your nearest **Netafim** Professional Irrigation dealer.



Miracle controller
6, 9, 12 station controller 3 program w/sensor input, rain delay & budget facility



Flori Com
Soil moisture sensor which senses soil moisture content to override the Miracle controller



Flori DC
Battery operated moisture activated controller - 1 & 3 stn.



Aquapro
Battery operated controller comes with Aquanet DC 25mm valve.



Valves
Netafim 1" Solenoid valve. And Aquanet DC Valves



Pressure reducing
Netafim, Planet & Bernad. Available in preset or adjustable models.



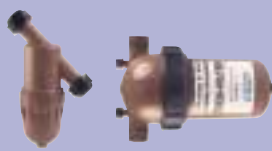
Air release valves
Netafim, Bernad & ARI air/vacuum release valves. Fit to the highest point in your drip system



Auto flush valve
Netafim auto flushing Valve. Will discharge approx. 4 ltrs of water every irrigation cycle.



Arkal filter
Disc filter available in 20mm-50mm in mesh sizes from 40-140 mesh.



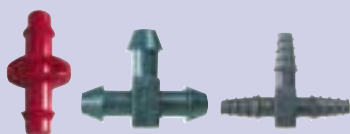
Tech-filter
Tech-filter or system protection unit introduces minutes traces of Treflan into the system to prevent root instruction.



Line Indicator flag
Flag lifts to indicate when the drip line is in use. Simply plugs into dripline via 4mm barbed connector.



Techline start connector & fittings
Start connector & fittings are available for all dripline sizes.



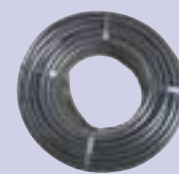
6mm fittings
assorted fittings for Mniscape Tees, elbows and take-offs.



Hole punches
Hole Punch tools for 5mm and 7mm Take-off adaptors.



Pipe stakes
Pipe Stakes for 8mm Mniscape & 16mm scapeline, Techline & Bioline.



LD Poly
Low Density Poly pipe in 13mm, 19mm, 25mm & 32mm.



Mniscape
8mm drip tube
1. 9L/H drip
0.15, 0.30, 0.50m spacing
30m, 100m & 300m rolls



Scapeline
16mm O.D. drip tube
2. 0L/H drip
0.3, 0.4, 0.5m spacing
50m & 200m roll



Techline
16mm O.D. drip tube
1. 6L/H & 2. 3L/H
0.3, 0.4, 0.5m spacing
50m & 200m roll



Bioline
17mm O.D. drip tube
1. 6L/H & 2. 3L/H
0.3, 0.4, 0.5m spacing
200m roll



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