



DRIP-IN™

PC with ROOTGUARD® Protection

FOR LANDSCAPES AND GARDENS

Irritrol®

SYSTEMS

Subsurface Drip System for Residential, Commercial & Golf Course Applications.

ARE YOU LOOKING FOR:

- Application versatility?
- Safe and Environmentally friendly systems?
- Precise water application?
- Low maintenance and Running Costs?

Drip-In™ PC with Rootguard® is the most technologically advanced subsurface irrigation system available. Through revolutionary, non-toxic Rootguard technology, Drip-In PC with Rootguard delivers optimal water application directly to the root zone while impeding roots from clogging the emitters. Drip-In PC with Rootguard is perfect for lawns, shrub areas, median strips, public recreation areas, sports fields, corporate gardens, car yards, parking islands and vandal prone areas. Drip-In PC with Rootguard is also a solution for golf course applications including bunker edges, bunker tongues, tees and greens.

ADVANTAGES

- More efficient water usage.
- Greater application uniformity.
- No run, overspray or evaporation.
- Reduced weed growth.
- Healthier plants.
- Less pest and vandal damage.
- No irrigation down-time (Area can be used all day, every day).



PROFESSIONAL, FLEXIBLE AND RELIABLE

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PARKING LOTS



GOLF COURSES



PUBLIC RECREATION AREAS



BORDERS/MEDIAN STRIPS



COMPONENTS

— Rootguard Technology

This patented technology guards against roots growing into the emitters and plugging them.

— Design Flexibility

Drip-In PC with Rootguard fits into narrow and odd-shaped spaces.

— Ease of Maintenance

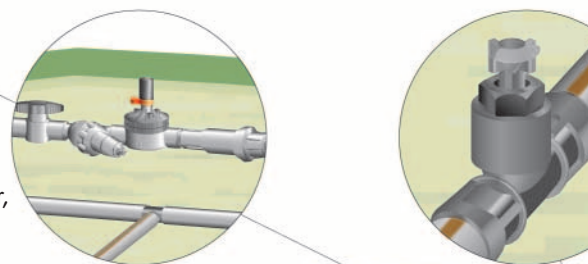
Drip-In PC with Rootguard is easy to install and requires minimal maintenance.

— Uniform Water Application

Pressure compensating, self-cleaning emitters provide precise water application. Available in 30 and 40 cm spacing.

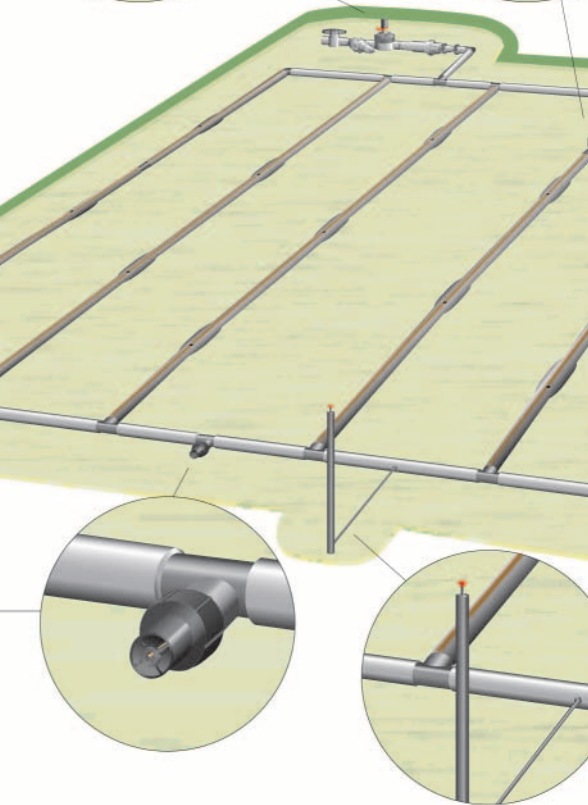
Drip Zone Valve Assembly

- Place the assembly before each drip zone.
- Assembly to include ball valve, Y-filter, control valve, pressure regulator and necessary fittings.



Automatic Line Flushing Valve

- Provides for system flushing each time the system is started.
- Install at furthest point from the water source.
- Install in valve box with gravel bed capable of absorbing about 4 litres of water.



MAINTENANCE TIPS

- Flushing keeps the Drip-In PC with Rootguard dripline clean. Any particles that accumulate at the end of the submains and driplines will be expelled from the system. This process can be automated or done manually.
- Problem detection is not complicated. Leaks can be found easily by walking the system and looking for excessively wet areas. Pressures should be checked routinely and compared to earlier pressures.
- Clean the filter as often as necessary. In new installations the filter should be checked frequently. When using clean potable water sources, two cleanings a year are enough.

IRRIGATION FREQUENCY

- The interval between irrigations depends on the average soil type. Light (sandy) soil should be watered frequently with short irrigation duration. Heavy (clay) soils can be watered less frequently with longer irrigation duration.
- Maximum daily plant requirements should be used to establish the emitter spacing in the dripline as well as the flow rate of the emitters.
- Irrigation time should not exceed the soil's infiltration rate.

Air/Vacuum Relief Valves

- Essential to provide vacuum relief within the irrigation system. (Part Number 101VB15)
- Recommended on all high points of an irrigation system to provide vacuum relief at system shutdown.



Operation Indicator

- A visual indicator that pops-up during each subsurface irrigation cycle. (Part Number DL-MP9, Drip Tube Operation Indicator)



SUGGESTED DRIP LINE & DRIPPER SPACING

Turf			
Soil Type	Line Spacing	Dripper Spacing	Burial Depth
Medium Sand	30cm	30cm	100mm
Loam	30cm	30cm	100mm
Clay Loam	40cm	40cm	100mm
Clay	30cm	40cm	100mm
Annuals, Ground Cover			
Soil Type	Line Spacing	Dripper Spacing	Burial Depth
Medium Sand	30cm	30cm	100mm
Loam	30 to 40cm	40cm	100mm
Clay Loam	40cm	40cm	100mm
Clay	30cm	40cm	100mm
Large Bushes, Shrubs, Beds			
Soil Type	Line Spacing	Dripper Spacing	Burial Depth
Medium Sand	Vary to suit planting density	30cm	150mm
Loam	Vary to suit planting density	40cm	150mm
Clay Loam	Vary to suit planting density	40cm	150mm
Clay	Vary to suit planting density	40cm	150mm

SPECIFICATIONS

Product Code	Size	Flow Rate	Spacing	Coil Length
DGC1320030-200	13mm	2 Lph PC	30 cm	200 m
DGC1320040-200	13mm	2 Lph PC	40 cm	200 m

APPLICATION RATES

Line and Dripper Spacing	Precipitation Rate
30cm x 30cm	22mm/hr
30cm x 40cm	16mm/hr
40cm x 40cm	12mm/hr

RUN LENGTH TABLE - 13MM DRIP-IN PC WITH ROOTGUARD

Dripper Spacing	Dripper Flow	Input Pressure vs. Maximum length of run			
		150 kPa	200 kPa	250 kPa	300 kPa
30cm	2 Lph	50m	65m	75m	80m
40cm	2 Lph	65m	85m	100m	110m

DRIP-IN™

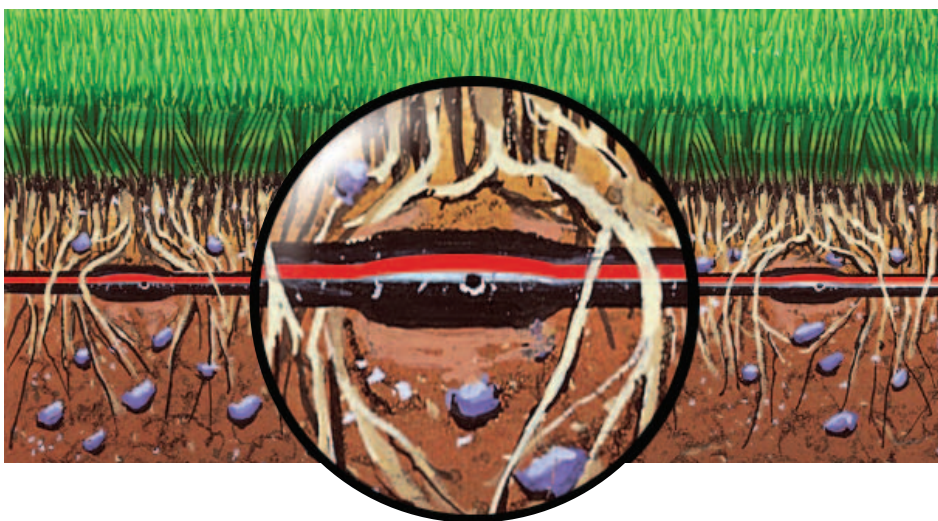
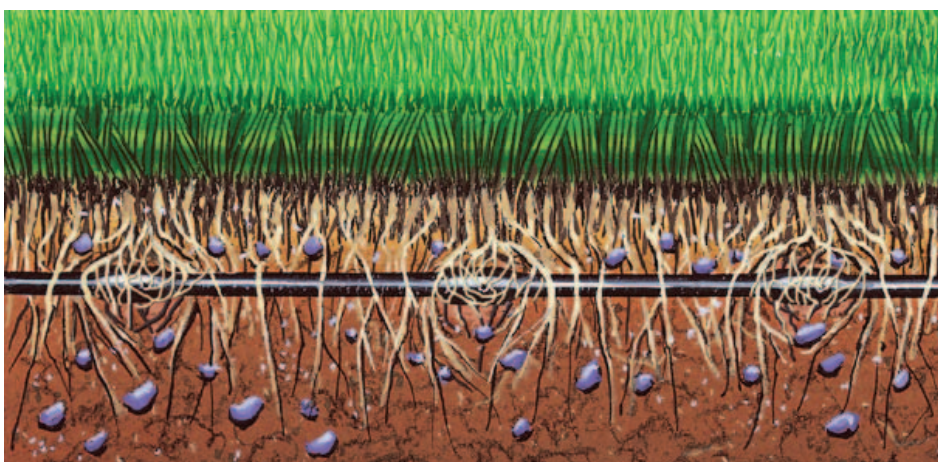
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ABOUT ROOTGUARD® TECHNOLOGY

Toro Drip-In PC with Rootguard dripline features patented, non-toxic Rootguard technology, which prevents roots from clogging irrigation emitters. The pre-emergent, TREFLAN, is impregnated into the emitter during the molding process and requires virtually no maintenance. There are no filters to change and no chemically treated disks to handle, making it the safest subsurface system in the market. Once Drip-In PC with Rootguard dripline is installed in the ground, the slow release of TREFLAN creates a barrier around the emitter. Roots are directed away from the emitter opening, ensuring optimal water application.



Drip-In PC with Rootguard protection inhibits root intrusion directly at the emitter opening.

FEATURES

— Precise Water Application

Flowers, shrubs and grass will receive the precise amount of water required for proper plant health while at the same time eliminating water marks on expensive hardscapes such as walls, glass or signage.

— Safer Surroundings

When Drip-In PC with Rootguard is installed below ground, the landscape surface is free from irrigation equipment that may disrupt activities or cause injury. Over spray and irrigation runoff are minimised and water is applied directly to the root zone, therefore slippery walkways are no longer a liability.

— Design Flexibility

Drip-In PC with Rootguard irrigation systems fit narrow and odd-shaped landscapes perfectly. Irrigate trees, shrubs, ground cover and turf in virtually any landscape area.

— Environmentally Friendly

Irrigating with Toro Drip-In PC with Rootguard saves water. Irrigation takes place at or below grade so there is minimal water loss due to mist, evaporation, run-off or wind. In addition, the amount of chemigation and fertigation required to maintain the health of your landscape is decreased since these are applied directly at the root zone. Drip-In PC with Rootguard requires less handling, so it is safer than any other sub-surface irrigation product on the market.

Dealer Stamp

**For Customer Service Call
Toro Irrigation on 1300 130 898**

*Toro Irrigation is a business unit of Toro Australia Pty Ltd
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TORO Toro Australia Pty Ltd

Part No. 2271