

UNIRAM™

THE WORLD'S MOST DURABLE PC DRIPLINE



HEAVY WALL DRIPLINES

Advanced pressure-compensated drippers embedded in thick wall driplines. It is designed to handle low water quality and the most challenging environments and topographies. The different UniRam™ models offer ideal suitability to irrigation in orchards, vineyards, greenhouses, nethouses and on other permanent crops. This is the solution for farmers seeking absolute crop uniformity, even in the most challenging topographies and water conditions. UniRam™ delivers precision season after season. This is the world's most advanced pressure compensated dripline and will allow you to manage extreme irrigation conditions with total confidence.

/Benefits & Features

- **Pressure-compensated** Precise and equal amounts of water are delivered over a wide pressure compensating range, ensuring 100% uniformity of water and nutrient distribution along the laterals.
- **Continuous self-flushing** Flushes debris throughout operation, while ensuring constant dripper operation even with challenging water quality.
- **Wide filtration area** Ensures optimal performance even under harsh water conditions, preventing the entrance of sediment into the labyrinths.
- **Wide water passages** TurboNet™ labyrinth offers wide water passages with a large deep and wide cross-section that improves clogging resistance.
- **Physical root barrier** Better protection against root intrusion, utilising unique dripper design that creates physical barriers protecting the dripper from root growth into its labyrinth.
- **Durable driplines** Ultra-durable, UV-stable driplines can withstand anything: heavy machinery, insects, sun exposure and re-coiling.

/Specifications

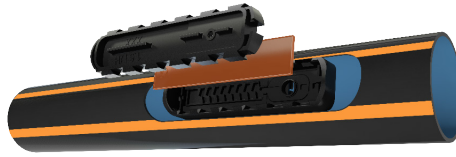
- ✓ Pressure-compensated range: 0.5 - 4.0 bar.
- ✓ Largest dripper filtration area in the industry.
- ✓ Recommended filtration: depending on dripper flow rate and based on the kind and concentration of dirt particles in the water. Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone shall be installed before the main filter. Where sand/silt/clay solids exceed 100 ppm, pre treatment shall be applied following Netafim expert instructions.
- ✓ Double TurboNet™ labyrinth with large water passage.
- ✓ Weldable into thick wall driplines (1.00, 1.20 mm).
- ✓ Available in the following flow rates: 0.7, 1.0, 1.6, 2.3, 3.5 l/h.
- ✓ Injected dripper, very low CV with injected silicon diaphragm.
- ✓ High UV resistant. Resistant to standard nutrients used in agriculture.
- ✓ Meets ISO 9261 Standards.

/Models



UniRam™ RC

Suitable to permanent row crops.



UniRam™ CNL

Suitable to irrigation in greenhouses, nethouses, and permanent applications that require intensive irrigation scheduling. Equipped with an anti-drain mechanism, this eliminates drainage and refill effect, and improves efficiency in pulse irrigation even in steep topography.

/Impact in the Field

ATTRIBUTE	IMPACT IN THE FIELD
LARGEST DRIPPER FILTRATION AREA IN THE INDUSTRY	
<ul style="list-style-type: none"> • Large and effective filter area • Prevents entrance of coarse particles into the flow path • Many short, deep independent slots connecting in parallel to wide collecting channels • Patent-protected slots and collecting channel structure • Water flow in dripline continually cleans the dripper filter • Slot width is smaller than the dripper flow path minimal dimension 	<ul style="list-style-type: none"> • Increased longevity as dirt particles are prevented from settling in and clogging the dripper • The dripper continues to operate perfectly even when most of the slots are clogged • The farmer gets peace of mind as the dripper achieves long term performance even with challenging water quality
LABYRINTH DESIGNED TO MAXIMISE TURBULENCE	
<ul style="list-style-type: none"> • TurboNet™ labyrinth creates flow detachment, that results in very high local vortexes and strong turbulence • Built to pass relatively low flow in a large flow path • Despite low flow, local vortexes are very high, resulting in strong internal turbulence that prevents the build up of sediments • Large cross section area (width x depth) • High turbulence level (measured as turbulence coefficient "K") creating self-cleaning effect • Sharp teeth • Direct connection between water flow path and compensation chamber means minimal sedimentation zones • Short sedimentation zones reduces dirt accumulation • Flat dripper means no side to side water passage 	<ul style="list-style-type: none"> • Superb clogging resistance allows ultra-efficient irrigation with minimum waste of water and nutrients, even in harsh water conditions • Stronger turbulence reduces the risk of clogging, as particles are better kept in suspension • Uniform irrigation is possible in even the most challenging conditions
THE WORLD'S MOST RELIABLE PRESSURE COMPENSATING MECHANISM	
<ul style="list-style-type: none"> • Maintains a constant low pressure differential inside the labyrinth • Large, deep compensation chamber enables efficient self cleaning at the whole range of inlet pressures • Keeps a constant pressure differential, regardless of the inlet pressure, thus maintaining a constant flow rate 	<ul style="list-style-type: none"> • Double anti-clogging protection through self-flushing and continuous self-cleaning mechanisms • High uniformity regardless the field topography and laterals length which leads to higher yields • Save on fertilizer and energy due to high uniformity