Big advantages

in the **small** details

DripNet PC™

Flawless uniformity.
Fast ROI.

© patented product launched in **2003**

More than **17 billion** DripNet PC™ drippers are used worldwide by tens of thousands of satisfied farmers

High proven resistance to clogging
even in adverse water conditions and with very low flow rates

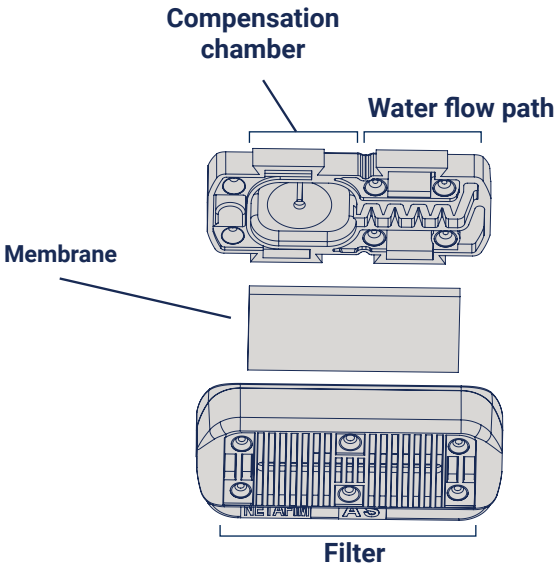
A unique wide range of flow rates:

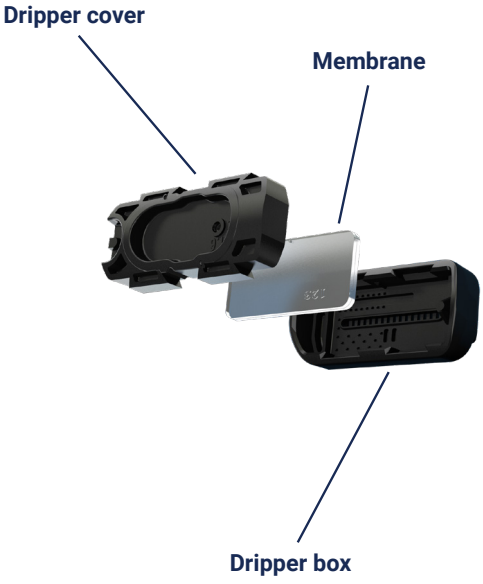
0.4 l/h | 0.6 l/h | 1.0 l/h | 1.6 l/h | 2.0 l/h | 3.0 l/h | 3.8 l/h

100% uniformity
of water and nutrient distribution for years

wide deep & short flow path

Models:
DripNet PC | DripNet PC **AS** | DripNet PC **ASXR**





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Filter

Large, effective filtration area despite the compact dripper size.

Large and effective filter area

Prevents penetration of coarse particles inside the flow path

More protection against clogging

The larger surface area of the filter increases the longevity of the dripper by preventing the possibility of dirt particles settling and clogging the dripper

Attributes:

- Large, effective filtration area despite the compact dripper size.
- Many short deep independent slots.
- High dripper profile that makes water flow in dripperline continually washes the filter.
- Slot width is smaller than the dripper's flow path minimal dimension.

Impact on Grower:

- The dripper continues to operate perfectly even when most of the slots are clogged.
- DripNet PC offers greater clogging protection, by allowing large particles to pass through.
- Peace of mind and long-term performance.

Filter Comparison

	DripNet PC™
Effective filtration area	

	Fact	Explanation	DripNet PC™	Others
Filter size	The larger the filter, the more dirt load it can handle, making the water inlet less likely to clog	Large filter enables the dripper to operate continuously and perfectly	39 mm^2	7 mm^2

Flow path: labyrinth

Designed to maximize turbulence

Efficient irrigation

Superb clog resistance allows ultra-efficient irrigation with minimum waste of water and nutrients

Never clogs

Excellent clog resistance for many years even in harsh water conditions

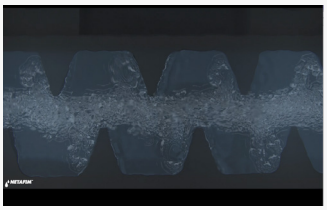
Attributes:

- TurboNet™ labyrinth creates flow detachment, that results in very high local vortexes and strong turbulence.
- Built to pass relatively low flow in a relatively large flow path.
- Despite low flow, local vortexes are very high, resulting in strong internal turbulence that prevents the built up of sediment that can cause clogging.

Impact on Grower:

- Excellent clog resistance even in harsh water conditions.
- Stronger turbulence reduces the risk of clogging, as particles are better kept in suspension within higher turbulence emitters.

Labyrinth Comparison

DripNet™ PC	Others
 TurboNet™ labyrinth creates flow detachment thus creating high local velocities and strong turbulence	Meshed or rounded teeth reduce turbulence and lead to smaller flow path and more sedimentation, hence clogging.

	Fact	Explanation	**DripNet PC™** 2.0 L/H	**Others***
Flow path size	The larger the flow path, the less risk of clogging.	A wider flow path prevents dirt accumulation in the labyrinth and determines the efficiency of operation during the irrigation season	Cross section size: ~0.84 mm^2	Cross section size: ~0.52 mm^2
Flow path length	**The longer the water passage the more sensitive it is to clogging.**	**Shorter labyrinth also produces stronger turbulence, which results in better resistance to clogging.**	**8 mm**	**~ 30 mm**
Turbulence coefficient	Higher turbulence coefficient = better clogging resistance	Higher turbulence coefficient = higher vortexes that prevent dirt sedimentation and accumulation in the labyrinth.	11.8	N/A

* Relates to a dripper in the same class as the international brand.

Compensation chamber

The world's most reliable pressure compensating mechanism

PC mechanism

Maintains a constant low pressure differential inside the labyrinth

Double protection

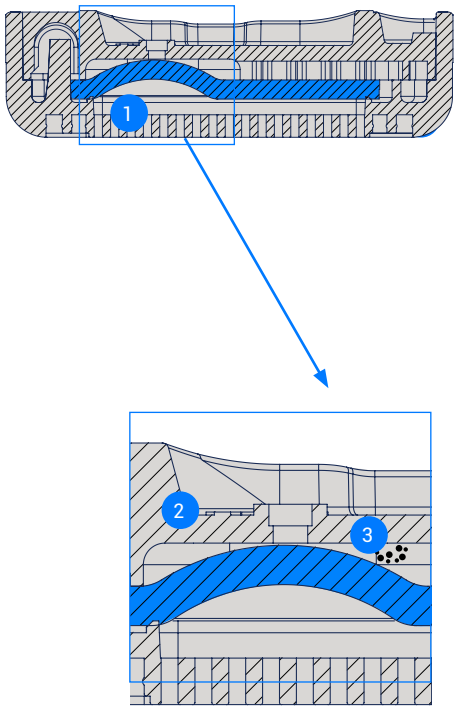
Double anti-clogging protection
Self-flushing and continuous self-cleaning mechanisms

Attributes:

» Large, deep chamber > 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.

Impact on Grower:

» High uniformity regardless the field topography and laterals length which leads to higher yields.
» Saves fertilizer and energy due to high uniformity.



1. The diaphragm deflects according to pressure differential between both sides.

2. The diaphragm forms a small flow path against the compensation hole to neutralize the rest of the inlet pressure, thus keeping constant pressure differential that leads to a constant flow rate.

3. In case of full or partial clogging, flow is reduced, the labyrinth loses less pressure and the diaphragm deflects less, opening a larger flow path to the compensation hole for the dirt to be flushed out. **This is self-flushing!**

Sedimentation zones

Zones between dripper parts where dirt settles due to non-turbulent flow (non-turbulence)

Minimum sedimantation area along the flow path

Short sedimentation zones reduces dirt accumulation.

Short non turbulent zones

Direct connection between water flow path and compensation chamber.

Attributes:

» Minimal, short sedimentation zones prevent dirt accumulation.
» Flat dripper > no side-to-side water passage.
» Direct connection between water flow path and compensation chamber > no sedimentation zones.

Impact on Grower:

» Minimal sedimentation.
» Excellent clog resistance.
» Ability to irrigate uniformly even in harsh water conditions.

Sedimentation zones - Comparison

Cylindrical drippers	**DripNet™ PC**	**Others drippers**
» Water entry and compensation chamber on one side » Side to side movement, back and forth, slow laminar flow allows for sedimentation » The labyrinth is welded to inner face of the pipe on the other side	Labyrinth and compensation chamber are covered by one diaphragm direct flow path, resulting in no sedimentation!	Small diaphragm so water leaves the labyrinth through a connecting hole to a connecting pool. Connecting hole welded to the pipe (where dirt particles may accumulate) and through another hole to the compensation chamber.

DripNet PC™ vs. Leading competitor

The comparison of DNPC to Leading competitor in HWD products when you have to differentiate these products. Understand that the talking points are slightly different than the UniRam vs Leading competitor comparison, as they should be, because the comparison is indeed different:

Attribute	Factual Data	Impact on Grower
Emitter Filtration Area	DNPC has 250% more open slot area than Leading competitor	As water quality gets worse, DNPC continues to irrigate, where Leading competitor will clog sooner
Turbulence	DNPC has over 260% more turbulence inside the emitter, that's right 260%!	More turbulence means lesser clogging potential. Particles are better kept in suspension in higher turbulence emitters
Flow Path Length	Leading competitor is almost 6 times as long, that's right 6 times!	Longer Flow Path emitters have physically more places to clog. Longer emitters have less turbulence which leads to clogging

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