UNIGRAY™ CNL AND HCNL

INTEGRAL PRESSURE-COMPENSATING,
CONTINUOUSLY SELF-CLEANING, ANTI-SIPHON
AND ANTI-DRAIN MECHANISM DRIPPER

16009 - 16010 - 16012 - 17012 - 20010 - 20012

APPLICATIONS

Multi seasonal greenhouses, nurseries and open field crops.

FEATURES AND BENEFITS

- Pressure compensated: Precise and equal amounts of water are delivered over a broad pressure range. 100 % uniformity of water and nutrient distribution along the laterals.
- Anti-Siphon mechanism: Prevents contaminants from being drawn into the dripper, which is needed in sub surface applications.
- Anti-drain(CNL) system: Eliminates drainage and refill effect, and improves efficiency in pulse irrigation.
- Continuously self flushing: Continously flushing debris, throughout operation, not just at the beginning or end of a cycle, ensuring uninterrupted dripper operation.
- Self-flushing system with wide filtration area improves resistance to clogging thus making UniRam™ highly resistant when using low quality water, which leads in reduction in filtraion requirements, hence increasing filtration efficiency.
- Physical root barrier: Better protection against root intrusion without reliance on chemicals.
- TurboNet™ labyrinth assures wide water passages, large deep and wide cross section improves clogging resistance.
- Light gray outside color that absorbs less energy utilizing most of the radiation in the greenhouse.

SPECIFICATIONS

- Pressure-compensating range: according to the product model.
- Anti-Siphon and Anti-drain mechanism.
- Largest filter in each dripper. Recommended filtration: 130 micron.
  Filtration method id to be selected based on the kind and concentration of the dirt particles existing in the water.
  Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclon is to be installed before the main filter.
  When sand / silt / clay exceed 100 ppm, pre treatment well be applied according to Netafim™ expert team's instructions.
- Double TurboNet™ labyrinth with large water passage.
- To be "welded" into thick-walled pipes (0.90, 1.00, 1.20 mm).
- Injected dripper, very low CV.
- Injected silicon diaphragm.
- High UV resistant. Resistant to standard nutrients used in agricultural.
- UniRam™ dripperlines meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII).

NETAFIM™
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DRIPPERS TECHNICAL DATA – CNL MODEL

FLOW RATE (L/H)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)	FILTRATION AREA (MM^2)	CONSTANT K	EXPONENT * X	RECOMMENDED FILTRATION (MICRON)/(MESH)	SHUT OFF PRESSURE (BAR)
0.70	1.0 - 4.0	0.70 x 0.65 x 40	110	0.70	0	130/120	0.14
1.00	1.0 - 4.0	0.83 x 0.74 x 40	130	1.00	0	130/120	0.14
1.60	1.0 - 4.0	1.07 x 0.79 x 40	130	1.60	0	130/120	0.14
2.30	1.0 - 4.0	1.26 x 0.95 x 40	130	2.30	0	130/120	0.14
3.50	1.0 - 4.0	1.59 x 1.10 x 40	150	3.50	0	130/120	0.14

* Within working pressure range

DRIPPERS TECHNICAL DATA – HCNL MODEL

FLOW RATE (L/H)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)	FILTRATION AREA (MM^2)	CONSTANT K	EXPONENT * X	RECOMMENDED FILTRATION (MICRON)/(MESH)	SHUT OFF PRESSURE (BAR)
0.85	1.5 - 4.0	0.70 x 0.65 x 40	110	0.85	0	130/120	0.25
1.25	1.5 - 4.0	0.83 x 0.74 x 40	130	1.25	0	130/120	0.25
2.00	1.5 - 4.0	1.07 x 0.79 x 40	130	2.00	0	130/120	0.25
2.90	1.5 - 4.0	1.26 x 0.95 x 40	130	2.90	0	130/120	0.25
4.40	1.5 - 4.0	1.59 x 1.10 x 40	150	4.40	0	130/120	0.25

* Within working pressure range

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