



UNIRAM™ HCNL

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



16009 - 16010 - 16012 - 17012 - 20010 - 20012 - 23010

APPLICATIONS

- Greenhouse, deciduous and tree irrigation.
- Precise Irrigation, Multiple pulse irrigation

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.
- High Anti-drain (HCNL) system: Eliminates drainage and refill effect, and improves efficiency in pulse irrigation.
- Continuously self flushing: Continuously 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 filtration 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.

SPECIFICATIONS

- Pressure-compensating range: 1.5-4.0 bar.
- Anti-Siphon and higher pressure range of the Anti-drain mechanism.
- Largest filter in each dripper. Recommended filtration: 130 micron / 120 mesh.
Filtration method is 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 Hydrocyclone is to be installed before the main filter. When sand/ silt/ clay solids exceed 100 ppm, pre treatment will be applied according to Netafim™ expert team's instructions.
- Double TurboNet™ labyrinth with large water passage.
- To be "welded" into thick-walled dripperlines (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).

DRIPPERS TECHNICAL DATA

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

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16009	14.2	0.9	16.0	3.0	3.9	1.3
16010	14.2	1.0	16.2	3.5	4.6	1.3
16012	14.2	1.2	16.6	4.0	5.2	1.3
17012	14.6	1.2	17.0	4.0	5.2	1.1
20010	17.5	1.0	19.5	3.5	4.6	0.4
20012	17.5	1.2	19.9	4.0	5.2	0.4
23010	20.8	1.0	22.8	3.0	3.5	0.3

DRIPPERLINES PACKAGE DATA (ON BUNDLED COILS)

MODEL	WALL THICKNESS (MM)	COIL LENGTH (M)	DISTANCE BETWEEN DRIPPERS (M)	AVERAGE* COIL WEIGHT (KG)	COILS IN A 40 FEET CONTAINER (UNITS)	TOTAL IN A 40 FEET CONTAINER (M)
16009	0.9	500	0.15 to 1.00	20.3	330	165000
16010	1.0	500	0.15 to 1.00	22.1	330	165000
16012	1.2	400	0.15 to 1.00	21.2	352	140800
17012	1.2	400	0.15 to 1.00	22.4	352	140800
20010	1.0	300	0.15 to 1.00	17.4	330	99000
20012	1.2	300	0.15 to 1.00	20.2	330	99000
23010**	1.0	200	0.15 to 0.25	14.7	480	96000
		300	0.30 to 1.00	20.7		144000

*According to drippers spacing

**Package only on carton/plastic coils