

# UniRam™ HCNL 16012, 16010, 16009

High Anti-drain & Anti-siphon

For greenhouses, sub-surface, deciduous & tree irrigation

- TurboNet™ labyrinth assures wide water passage
- PC system for uniform flow rate from 1.5 - 4.0 bar
- Anti-siphon & self-flushing systems prevent dirt penetration and improve clogging resistance
- Anti-drain (CNL) system for efficient pulse irrigation, prevents water drainage and eliminates need for refill
- Root physical barrier improves resistance to clogging caused by root penetration



## UniRam™ facets



Wide filtration area to ensure optimal performance even under harsh water conditions

Injected silicon diaphragm



Large, deep and wide cross-section improves clogging resistance

Root physical barrier – improves resistance to root penetration



PC system ensuring exact flow rate in all field conditions

Injection molded dripper construction, ensuring uniform drippers and very low CV

## Drippers technical data

Flow rate (l/h)	working pressure range (bar)	water passage dimensions width-depth-length (mm)	filtration area (mm <sup>2</sup> )	constant K	exponent* X	shut-off pressure (bar)
1.25	1.5-4.0	0.83 x 0.74 x 40	130	1.25	0	0.25
2.00	1.5-4.0	1.26 x 0.74 x 40	130	2.00	0	0.25
2.90	1.5-4.0	1.26 x 1.00 x 40	130	2.90	0	0.25
4.40	1.5-4.0	1.59 x 1.15 x 40	150	4.40	0	0.25

\*At working pressure range

## Dripperlines technical data

Model	inside Ø (mm)	wall thickness (mm)	outside Ø (mm)	max. working pressure (bar)	KD
16012	13.70	1.2	16.10	4.0	1.6
16010	14.10	1.0	16.10	3.5	1.3
16009	14.20	0.9	16.00	3.0	1.3

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## Performance Data

### UniRam™ HCNL 16012 • I.D. Ø 13.70 mm • Inlet pressure 3.0 bar

Max. lateral length (m) • spacing between drippers (m)

Flow rate (l/h)	0.2	0.3	0.4	0.45	0.5	0.6	0.75	0.9	1	1.25	1.5
1.25	97	139	179	198	217	252	302	349	379	450	516
2.00	69	100	128	142	155	181	217	250	272	324	371
2.90	53	76	98	109	119	139	167	193	209	249	285
4.40	41	59	76	85	93	108	130	150	164	195	224

### UniRam™ HCNL 16010 & 16009 • I.D. Ø 14.10 mm & 14.20mm • Inlet pressure 3.0 bar

Max. lateral length (m) • spacing between drippers (m)

Flow rate (l/h)	0.2	0.3	0.4	0.45	0.5	0.6	0.75	0.9	1	1.25	1.5
1.25	88	127	164	182	199	232	280	324	352	419	482
2.00	63	91	118	130	143	167	200	232	253	301	347
2.90	48	70	90	100	110	128	154	179	195	233	267
4.40	37	54	70	78	85	100	120	140	152	181	209

Minimum pressure considered = 1.5 bar, calculated in a plain area.

For more information, please contact Netafim Technical Department or connect to our website at [www.netafim.com](http://www.netafim.com)

06-0707-DRP-PS-0052-EN

## Packaging Data

UniRam™ HCNL	Wall thickness (mm)	Coil length (m)	Distance between drippers (m)	Coil weight* average (kg)	Coils in a 40 feet container (units)	Total in a 40 feet container (m)
16012	1.2	400	0.2 to 1.0	21.2	352	140800
16010	1.0	500	0.2 to 1.0	22.1	330	165000
16009	0.9	500	0.2 to 1.0	20.3	330	165000

\* According to drippers spacing

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