

# UniRam™ HCNL 17012, 17010, 17009

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
17012	14.60	1.2	17.00	4.0	1.6
17010	14.40	1.0	16.40	3.5	1.2
17009	14.40	0.9	16.20	3.0	1.2

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## Performance Data

### UniRam™ HCNL 17012 • I.D. Ø 14.60 mm • Inlet pressure 3.0 bar

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

Flow rate (l/h)	0.20	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00	1.25	1.50
1.25	104	149	192	212	232	269	323	373	404	479	549
2.00	74	107	137	152	166	193	232	267	290	345	395
2.90	57	82	105	117	128	148	178	206	224	265	305
4.40	44	64	82	90	99	116	139	160	175	208	239

### UniRam™ HCNL 17010 & 17009 • I.D. Ø 14.40 mm • Inlet pressure 3.0 bar

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

Flow rate (l/h)	0.20	0.30	0.40	0.45	0.50	0.60	0.75	0.90	1.00	1.25	1.50
1.25	102	146	188	207	227	263	316	365	395	469	537
2.00	73	104	134	149	163	189	227	262	284	338	387
2.90	56	80	103	114	125	145	174	202	219	260	299
4.40	43	62	80	89	97	113	136	158	171	203	233

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-0053-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)
17012	1.2	400	0.2 to 1.0	22.4	352	140800
17010	1.0	500	0.2 to 1.0	23.3	330	165000
17009	0.9	500	0.2 to 1.0	21.5	330	165000

\* According to drippers spacing

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