

UniRam™ CNL 17012, 17010, 17009

Anti-drain & Anti-siphon

For greenhouses, sub-surface, deciduous & tree irrigation

- TurboNet™ labyrinth assures wide water passage
- PC system for uniform flow rate from 1.0 - 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 ²)	constant K	exponent* X	shut-off pressure (bar)
1.0	1.0-4.0	0.83 x 0.74 x 40	130	1.0	0	0.14
1.6	1.0-4.0	1.26 x 0.74 x 40	130	1.6	0	0.14
2.3	1.0-4.0	1.26 x 1.00 x 40	130	2.3	0	0.14
3.5	1.0-4.0	1.59 x 1.15 x 40	150	3.5	0	0.14

*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™ CNL 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
1.0	131	189	242	267	292	339	406	468	507	601	687
1.6	89	128	165	183	200	232	279	323	351	416	479
2.3	76	109	140	155	170	197	236	273	296	350	402
3.5	58	83	106	118	129	150	179	208	225	268	306

UniRam™ CNL 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
1.0	126	182	233	257	282	327	392	453	491	583	668
1.6	92	133	171	189	207	241	289	334	362	430	492
2.3	73	105	135	149	163	190	228	264	286	340	390
3.5	55	80	102	113	124	145	173	201	218	259	297

Minimum pressure considered = 1.0 bar, calculated in a plain area.

For more information, please contact Netafim Technical Department or connect to our website at www.netafim.com

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Packaging Data

UniRam™ CNL	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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