

UniRam™ HCNL 20012, 20010

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 ²)	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
20012	17.50	1.2	19.90	4.0	0.4
20010	17.45	1.0	19.45	3.5	0.4

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Performance Data

UniRam™ HCNL 20012 • I.D. Ø 17.50 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	172	241	303	333	361	413	488	556	600	701	797
2.00	124	173	218	239	259	298	351	401	432	506	575
2.90	95	133	168	184	199	229	270	309	333	390	443
4.40	74	104	131	144	156	179	212	241	260	305	347

UniRam™ HCNL 20010 • I.D. Ø 17.45 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	172	240	302	331	359	412	485	554	597	699	792
2.00	123	172	217	238	258	296	350	399	430	504	572
2.90	94	132	167	183	199	228	269	307	331	389	441
4.40	73	103	130	143	155	178	210	240	259	304	345

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

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)
20012	1.2	300	0.2 to 1.0	20.2	352	105600
20010	1.0	300	0.2 to 1.0	17.4	352	105600

* According to drippers spacing

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