



UNIRAM CNL



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

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

APPLICATIONS

- Greenhouse, deciduous and tree irrigation.
- Sub-surface multi seasonal row crops.

SPECIFICATIONS

- Pressure-compensating range: 1.0-4.0 bar.
- Anti-Siphon and 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.
- UV resistant. Resistant to standard nutrients used in agricultural.
- UniRam™ drippers meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII).

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.
- Anti-drain (CNL) system: Eliminates drainage and refill effect, and improves efficiency in pulse irrigation.
- Continuously self flushing: Flushes debris as it is detected, 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.
- 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. Widest water passages within the dripper.

DRIPPERS TECHNICAL DATA

FLOW RATE* (L/H)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)	FILTRATION AREA (MM²)	CONSTANT K	EXPONENT* X	RECOMMENDED FILTRATION (MICRON)/(MESH)	SHUT OFF PRESSURE (BAR)
0.7	1.0 – 4.0	0.70 x 0.65 x 40	110	0.7	0	130/120	0.14
1.0	1.0 – 4.0	0.83 x 0.74 x 40	130	1.0	0	130/120	0.14
1.6	1.0 – 4.0	1.07 x 0.79 x 40	130	1.6	0	130/120	0.14
2.3	1.0 – 4.0	1.26 x 0.95 x 40	130	2.3	0	130/120	0.14
3.5	1.0 – 4.0	1.59 x 1.10 x 40	150	3.5	0	130/120	0.14

* Within working pressure range

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UniRam CNL Dripperline
September 2017
CP



UNIRAM CNL 16009

Catalog number **13920** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7	000700													
1.0	001150	001200		001300		001400	001500	001700						
1.6	002100	002200		002300		002500	002600			002800				
2.3						003580	003600				003900			
3.5						005000	005050							
Bundled coil length (m)	500	500	500	500	500	500	500	500	500	500	500	500	500	500

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16009	14.20	0.90	16.00	3.0	3.9	1.3

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	0.90	500	0.15 to 1.00	20.3	330	165000

*According to drippers spacing

UNIRAM CNL 16010

Catalog number **13900** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7		000250												
1.0	001000	001100	001150	001200	001230	001260	001300	001325			001350	001400	001800	002000
1.6	004400	004500	004550	004600	004630	004700	004800	004900	004950	004960	005000	005200		005300
2.3	005600	005700	005900	006000	006050	006200	006400	006500	006550	006670	006700	006800	006900	007000
3.5	007300	007350	007400	007500	007530	007600	007700	007900		008100	008200	008300	008400	008500
Bundled coil length (m)	500	500	500	500	500	500	500	500	500	500	500	500	500	500

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16010	14.20	1.00	16.20	3.5	4.6	1.3

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)
16010	1.00	500	0.15 to 1.00	22.1	330	165000

*According to drippers spacing

UNIRAM CNL 16012

Catalog number **13880** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7	000050	000100					000400							
1.0		001100	001150	001200		001300	001400	001500						002000
1.6	002800	002900	003000	003100	003150	003200	003300				003700	003800		004200
2.3	004700		004900	005000	005150	005300	005400					005700		005850
3.5				006500		006400	006700							007000
Bundled coil length (m)	400	400	400	400	400	400	400	400	400	400	400	400	400	400

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16012	14.20	1.20	16.60	4.0	5.2	1.3

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)
16012	1.20	400	0.15 to 1.00	21.2	352	140800

*According to drippers spacing

UNIRAM CNL 17012

Catalog number **14040** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7		000005												
1.0	000035	000040	000045	000050		000070	000100	000120			000140	000160		000200
1.6	000300	000350	000400	000450	000467	000500	000550	000600				000750	000770	000800
2.3		000950	000970	001100	001150	001400	001600	001700	001730	001800	001900	002100	002200	002300
3.5			002950	003000		003100	003200	003250		003300	003320	003350	003370	003400
Bundled coil length (m)	400	400	400	400	400	400	400	400	400	400	400	400	400	400

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
17012	14.60	1.20	17.00	4.0	5.2	1.1

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)
17012	1.20	400	0.15 to 1.00	22.4	352	140800

*According to drippers spacing

UNIRAM CNL 20010

Catalog number **14560** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7														
1.0		000900	000950	001000		001200	001300	001400			001500	001550		002000
1.6	004200	004300	004400	004500		004600	004700	004800			004900	005000		005200
2.3		005500	005600	005700		005800	005900	006000			006100	006300		006500
3.5			006950	007000		007200	007300	007400			007500	007550		007600
Bundled coil length (m)	300	300	300	300	300	300	300	300	300	300	300	300	300	300

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
20010	17.50	1.00	19.50	3.5	4.6	0.4

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)
20010	1.00	300	0.15 to 1.00	174	330	99000

*According to drippers spacing

UNIRAM CNL 20012

Catalog number **14540** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7		007000				000030								
1.0	000070	000100	000120	000140		000153	000160	000170			000180	000185	000190	000200
1.6		000400	000450	000500	000523	000550	000600	000650	000665		000680	000750	000780	000800
2.3	000890	000900	001050	001400	001510	001900	002100	002300		002500	002600	002700	002800	002900
3.5		003880	003900	004000	005450	004100	004200	004300	004350	004400	004500	004600	004700	004800
Bundled coil length (m)	300	300	300	300	300	300	300	300	300	300	300	300	300	300

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
20012	17.50	1.20	19.90	4.0	5.2	0.4

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)
20012	1.20	300	0.15 to 1.00	20.2	330	99000

*According to drippers spacing

UNIRAM CNL 23010

Catalog number **14625** - (any of below 6 digits)

FLOW RATE (L/H)	DISTANCE BETWEEN DRIPPERS (M)													
	0.15	0.20	0.25	0.30	0.33	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.90	1.00
0.7						000800								
1.0						001600	001700	001900	001950					
1.6						002800	002900	003000	003100					
2.3						003850	003900	004100		004200				
3.5						005400	005450	005500	005600		005700	005800		006100
Carton coil length (m)	200	200	200	300	300	300	300	300	300	300	300	300	300	300

Missing catalog numbers available upon request.

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
23010	20.80	1.00	22.80	3.0	3.5	0.3

DRIPPERLINES PACKAGE DATA (ON CARTON 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)
23010	1.00	200	0.15 to 0.25	14.7	480	96000
		300	0.30 to 1.00	20.7		144000

*According to drippers spacing

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