



UNIRAM AS



INTEGRAL PRESSURE-COMPENSATING, CONTINUOUSLY SELF-CLEANING, ANTI-SIPHON 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: 0.5-4.0 bar.
- Anti-Siphon mechanism.
- Largest filter in each dripper. Recommended filtration: according to drippers flow rate.
- 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.
- 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)
0.7	0.5 – 4.0	0.70 x 0.65 x 40	110	0.7	0	130/120
1.0	0.5 – 4.0	0.83 x 0.74 x 40	130	1.0	0	130/120
1.6	0.5 – 4.0	1.07 x 0.79 x 40	130	1.6	0	200/80
2.3	0.5 – 4.0	1.26 x 0.95 x 40	130	2.3	0	200/80
3.5	0.5 – 4.0	1.59 x 1.10 x 40	150	3.5	0	200/80

* Within working pressure range

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UniRam AS Dripperline
September 2017
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UNIRAM AS 16009

Catalog number **13740** - (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				001200		001250	001400	001550		001600				
1.6				002300		002400	002500	002600	002650	002700	002750	002800		
2.3				003400			003700	003800	003850	003870	003900	004000	004100	004200
3.5				009700		009750	010035	010040		010050	010100		010200	
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 AS 16010

Catalog number **13720** - (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		000180		000200		000220	000240	000260			000280			000300
1.0	000380	000400	000450	000500	000550	000600	000700	000800	000840	000850	000900	001000		001200
1.6		001520	001550	001600	001650	001700	001800	001900	001950	001965	002000	002100	002200	002500
2.3		002600	002620	002700	002750	002850	002900	003000	003100	003150	003200	003300	003400	003600
3.5		003950		004000	004100	004160	004200	004270	004300	004350	004370	004440	004470	004500
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 AS 16012

Catalog number **13700** - (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				000100		000120								
1.0		000400	000450	000500			000600	000680			000700			000900
1.6		001000		001050	001087	001095	001100	001150			001200	001300		001400
2.3		001680		001700	001800	001900	002000	002050	002100	002200	002300	002350		002500
3.5				003200		003300	003400	003500		003550	003600	003700		004000
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 AS 17012

Catalog number **14000** - (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		000010				000025								
1.0	000050	000070	000085	000100		000125	000150				000200	000210		000250
1.6	000600	000650	000700	000800	000830	000900	001000	001050		001110	001130	001135		001140
2.3		001200	001250	001400	001470	001550	001700	001900	001930	001950	002100	002130		002300
3.5				002380		002385	002390	002395		002399	002410	003000	003210	003600
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 AS 20010

Catalog number **14520** - (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				001000		001025	001050	001100			001200			001300
1.6				001800		001900	001950	002050		002065	002070	002100		002200
2.3				002400		002500	002550	002600		002650	002700	002800		003000
3.5				003500		003600	003700	003800		003850	003890	004000		004100
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	17.4	330	99000

*According to drippers spacing

UNIRAM AS 20012

Catalog number **14500** - (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		000008	000009	007500		007600	007700	007800			007900			008000
1.0		000020	000040	000050		000075	000080	000095		000096	000100	000104	000108	000110
1.6		000170	000200	000300	000360	000400	000600	000700		000800	000900	000960	000970	000980
2.3		000990	001020	001150	001310	001450	001550	001800	001850	001920	001950	002100	002300	002400
3.5				005300		005400	005700	005800		005900	006000	006100	006200	006700
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 AS 23010

Catalog number **14635** - (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				000500		000550	000600	000650			000700			000750
1.0				001300		001400	001500	001570	001600					001850
1.6						002200	002300	002400	002470	002520	002600	002660		
2.3						003500	003600	003705	003740	003800	003900	003950	004050	004100
3.5						005000	005100	005200		005400	005500			005700
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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