



## ARIES™ HWD

INTEGRAL DRIPPER



12010 - 16009 - 16010 - 16012 - 20010 - 20012 - 23009

### APPLICATIONS

- Deciduous plantation, and tree irrigation.
- On-surface multi seasonal row crops.

### FEATURES AND BENEFITS

- Largest filter in each dripper. Wide filtration area to ensure optimal performance even under harsh water conditions.
- TurbuNext™ labyrinth assures wide water passages, large deep and wide cross section improves clogging resistance.
- The water is drawn in to the dripper from the stream center, preventing the entrance of sediments in to the drippers.
- Injection molded dripper construction , ensuring uniform drippers and very low CV.

### SPECIFICATIONS

- Maximum system pressure: according to dripperlines wall thickness.
- Recommended filtration: according to drippers flow rates.  
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.
- TurbuNext™ labyrinth with superior performance.
- To be "welded" into thick-walled dripperlines (0.90, 1.00, 1.20 mm).
- Injected dripper, very low CV.
- High UV resistant.
- Resistant to standard nutrients used in agricultural.
- Aries™ dripperlines meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII).

## DRIPPERS TECHNICAL DATA

12010, 16009, 16010, 20010, 23009 - 0.9 and 1.0 mm wall thickness dripperlines

FLOW RATE* (L/H)	MAXIMUM WORKING PRESSURE (BAR)**	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)			FILTRATION AREA (MM <sup>2</sup> )	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.55	3.0 up to 3.5	0.47	0.53	65	36	0.191	0.46	130/120
0.80		0.54	0.69	65	43	0.277	0.46	130/120
1.00		0.60	0.74	65	49	0.347	0.46	200/80
1.50		0.71	0.85	65	53	0.520	0.46	200/80
2.00		0.76	1.03	65	54	0.693	0.46	200/80
3.00		0.90	1.20	65	54	1.040	0.46	200/80
4.00		0.94	1.28	33	54	1.387	0.46	200/80
8.00		1.52	1.28	28	50	2.773	0.46	200/80

\*Flow rate at 1.0 bar pressure \*\*According to dripperlines wall thickness

16012, 20012 - 1.2 mm wall thickness dripperlines

FLOW RATE* (L/H)	MAXIMUM WORKING PRESSURE (BAR)**	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)			FILTRATION AREA (MM <sup>2</sup> )	CONSTANT K	EXPONENT X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.55	4.00	0.47	0.53	65	36	0.191	0.46	130/120
0.85		0.54	0.69	65	43	0.295	0.46	130/120
1.05		0.60	0.74	65	49	0.364	0.46	200/80
1.60		0.71	0.85	65	53	0.554	0.46	200/80
2.10		0.76	1.03	65	54	0.728	0.46	200/80
3.15		0.90	1.20	65	54	1.092	0.46	200/80
4.20		0.94	1.28	33	54	1.455	0.46	200/80
8.40		1.52	1.28	28	50	2.912	0.46	200/80

\*Flow rate at 1.0 bar pressure\*Flow rate at 1.0 bar pressure

## DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
12010	10.30	1.0	12.30	4.0	5.2	0.70
16009	14.20	0.9	16.00	3.0	3.9	0.40
16010	14.20	1.0	16.20	3.5	4.6	0.40
16012	14.20	1.2	16.60	4.0	5.2	0.40
20010	17.50	1.0	19.50	3.5	4.6	0.10
20012	17.50	1.2	19.90	4.0	5.2	0.10
23009	20.80	0.9	22.60	3.0	3.9	0.07

## 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)
12010	1.0	500	0.15 to 1.00	21.0	370	222000
16009	0.9	500	0.15 to 1.00	20.7	330	165000
16010	1.0	500	0.15 to 1.00	23.0	330	165000
16012	1.2	400	0.15 to 1.00	22.3	352	140800
20010	1.0	300	0.15 to 1.00	16.7	330	99000
20012	1.2	300	0.15 to 1.00	20.2	330	99000
23009 (on carton coils)	0.9	300	0.15 to 0.25	17.6	480	144000
		400	0.30 to 1.00	22.4		192000

\*According to drippers spacing