

UniRam™ CNL

Integral pressure-compensated, continuously self-flushing, anti-siphon and anti-drain mechanism dripper

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



Pressure-compensated



Anti-Drain mechanism



Self-flushing mechanism

/ Benefits & Features

- **Pressure-compensated** Precise and equal amounts of water delivered over a broad pressure range, ensuring 100% uniformity of water and nutrient distribution along the laterals.
- **Anti-Siphon mechanism** Prevents contaminants from being drawn into the dripper, making it ideal for sub surface applications.
- **Anti-Drain (CNL) mechanism** Eliminates drainage and refill effect, and improves efficiency in pulse irrigation.
- **Continuously self-flushing** Flushes debris, throughout operation, while ensuring constant dripper operation.
- **Wide filtration area** Makes UniRam™ highly resistant to clogging with poor quality water, thus increasing filtration efficiency.
- **Physical root barrier** Better protection against root intrusion without reliance on chemicals.
- **TurboNet™** Labyrinth ensures wide water passages, to increase flushing efficiency.

/ Specifications

- ✓ Pressure-compensated range: 1.0-4.0 bar. Anti-Siphon and Anti-Drain mechanism. Anti drainage (CNL) function with shut-off pressure of 0.14 bar
- ✓ Recommended filtration: 130 micron / 120 mesh. Filtration method selected based on the kind and concentration of dirt particles contained in the water. Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone shall be installed before the main filter. Where sand/silt/clay solids exceed 100 ppm, pre treatment shall be applied following Netafim expert instructions.
- ✓ Double TurboNet™ labyrinth with large water passage.
- ✓ Weldable into thick wall driplines (0.90, 1.00, 1.20 mm).
- ✓ Injected dripper, very low CV with injected silicon diaphragm.
- ✓ High UV resistant. Resistant to standard nutrients used in agriculture.
- ✓ UniRam™ driplines meet ISO 9261 Standards with Israel Standard Institute (SII)-certified production.

→ DRIPPERS TECHNICAL DATA

| FLOW RATE* (L/H) | WORKING PRESSURE RANGE (BAR) | WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM) | FILTRATION AREA (MM ²) | 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

→ DRIPLINES 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 | 1.30 |
| 16010 | 14.20 | 1.00 | 16.20 | 3.5 | 4.6 | 1.30 |
| 16012 | 14.20 | 1.20 | 16.60 | 4.0 | 5.2 | 1.30 |
| 17012 | 14.60 | 1.20 | 17.00 | 4.0 | 5.2 | 1.10 |
| 20010 | 17.50 | 1.00 | 19.50 | 3.5 | 4.6 | 0.40 |
| 20012 | 17.50 | 1.20 | 19.90 | 4.0 | 5.2 | 0.40 |
| 23010 | 20.80 | 1.00 | 22.80 | 3.0 | 3.5 | 0.30 |

→ DRIPLINES PACKAGE DATA (ON BUNDLED COIL) **

| 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 |
| 16010 | 1.00 | 500 | 0.15 to 1.00 | 22.1 | 330 | 165000 |
| 16012 | 1.20 | 400 | 0.15 to 1.00 | 21.2 | 352 | 140800 |
| 17012 | 1.20 | 400 | 0.15 to 1.00 | 22.4 | 352 | 140800 |
| 20010 | 1.00 | 300 | 0.15 to 1.00 | 17.4 | 330 | 99000 |
| 20012 | 1.20 | 300 | 0.15 to 1.00 | 20.2 | 330 | 99000 |
| 23010** | 1.00 | 200 | 0.15 to 0.25 | 14.7 | 480 | 96000 |
| | | 300 | 0.30 to 1.00 | 20.7 | | 144000 |

* Calculated weight average. For further details see "Average Coil Weight Disclaimer"

** Dripline model 23010 on carton coil