



## FDS 250

DRIP IRRIGATION SYSTEM PER 250 M<sup>2</sup>

### APPLICATIONS

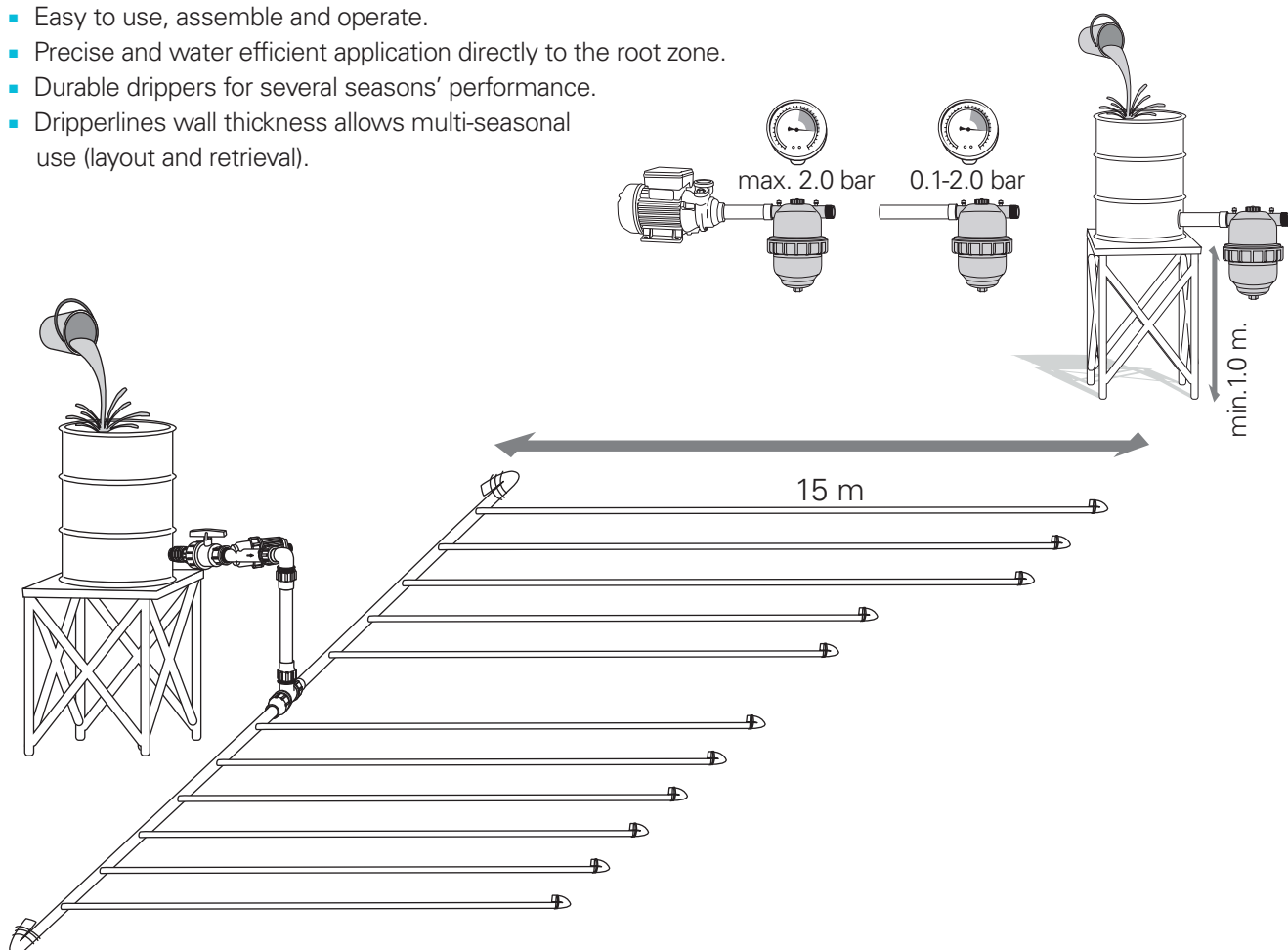
Irrigation of all vegetable types or row crops grown on 250 m<sup>2</sup>.

### SPECIFICATIONS

- Designed for irrigation of 250 m<sup>2</sup> with 1.0 m dripperlines spacing.
- Working pressure range: 0.1 to 2.0 bar.
- System head control must be installed in the highest point of the irrigated field.
- The system is designed for installation in fields with maximum 2% slope.
- Dripper flows, irrigation rates and scheduling at different working pressures will follow in the table below.
- The system includes all needed components for field installation and operation.
- The system can be operated by water pressure using a pump or by atmospheric pressure (over 0.1 bar).

### FEATURES AND BENEFITS

- All products/ parts needed for installation and operation are included.
- Easy to use, assemble and operate.
- Precise and water efficient application directly to the root zone.
- Durable drippers for several seasons' performance.
- Dripperlines wall thickness allows multi-seasonal use (layout and retrieval).



## LOGISTIC DATA

- Catalog number: 42000-003100
- Box packaging size: 0.52 x 0.52 x 0.23 meter
- Average box weight: 9.7 Kg
- Pallet packaging size: 1.14 x 1.14 x 2.10 meter
- Average pallet weight: 323 Kg
- Number of irrigation kits per pallet: 32 kits
- Number of irrigation kits per 40 ft container: 640 kits

## SYSTEM COMPONENTS

| FDS 250                             | 42000-003100 |
|-------------------------------------|--------------|
| COMPONENTS                          | UNITS        |
| PE IRRIGATION PIPE 25/4 25 M FDS    | 1            |
| MICRODRIP 8 2.00 L/H 0.30 M 250 M   | 1            |
| TANK OUTLET 1" BUTZI PP             | 1            |
| PLASTIC FEMALE COUPLER 1"           | 1            |
| SCREEN FILTER 1"M* 1"M 120 MESH     | 1            |
| PLASTIC BALL VALVE 1"F*1"F          | 1            |
| NUT LOCK ELBOW 25 MM*1"F            | 1            |
| NUT LOCK TEE 25 MM*25 MM*25 MM      | 1            |
| ELBOW 25 MM*25 MM                   | 1            |
| 25 MM END LINE                      | 2            |
| NARROW TEFLON                       | 1            |
| MINI PUNCH 3.5                      | 1            |
| BARB-F CON. BROWN                   | 20           |
| BARB-M CON. BROWN F/MICRO TUBE 8 MM | 20           |
| BARB COUPLING BROWN CONN. 8 MM      | 5            |
| MALE PLUG                           | 5            |

| FDS CONNECTORS BAG (SPARE PARTS)    | 42000-003500 |
|-------------------------------------|--------------|
| COMPONENTS                          | UNITS        |
| BARB-F CON. BROWN                   | 20           |
| BARB-M CON. BROWN F/MICRO TUBE 8 MM | 20           |
| BARB COUPLING BROWN CONN. 8 MM      | 5            |
| MALE PLUG                           | 5            |

## TECHNICAL DATA

Dripper hourly flow rate respective to working pressures and precipitation rates according to dripper and dripperline spacing:

| PRESSURE (BAR)   | 0.1  | 0.2  | 0.4  | 0.6  | 0.8  | 1.0  | 1.2  | 1.4  | 1.6  | 1.8  | 2.0  |
|--|------|------|------|------|------|------|------|------|------|------|------|
| FLOW RATE (L/H)  | 0.65 | 0.91 | 1.28 | 1.56 | 1.79 | 2.00 | 2.19 | 2.36 | 2.52 | 2.67 | 2.81 |
| PRECIPITATION RATE (MM/H) WITH DRIPPERLINES EACH 1.0 M | 2.16 | 3.03 | 4.25 | 5.19 | 5.97 | 6.66 | 7.29 | 7.86 | 8.39 | 8.89 | 9.36 |

To calculate irrigation time per day divide to total water amount required by the system's precipitation rate, for example: crop requirement of 5 mm per day will be divided by precipitation rate (based on the working pressure) to obtain the total number of hours required for irrigation.

Hourly water amount respective to working pressures when the whole system is operated simultaneously or when the system is operated in two halves:

| PRESSURE (BAR)  | 0.1  | 0.2  | 0.4  | 0.6  | 0.8  | 1.0  | 1.2  | 1.4  | 1.6  | 1.8  | 2.0  |
|---|------|------|------|------|------|------|------|------|------|------|------|
| TOTAL FLOW RATE (M <sup>3</sup> /H) WHEN ALL 250 M DRIPPERLINE WILL BE USED | 0.54 | 0.76 | 1.06 | 1.30 | 1.49 | 1.67 | 1.82 | 1.96 | 2.10 | 2.22 | 2.34 |