

Series 4XX Static Emitters

This series of excellent static emitters includes a wide range of sprayer heads to cover various water distribution patterns and wetting diameters. The superb performance offered by the 4XXX series allows its use in specialty requirements of agricultural and landscape irrigation.

Applications:

- For Irrigation of: trees, Vines and young plantations.
- Applicable for narrow bed, strips, sector areas, potted plants ,
- Can be used for Landscape and Home gardening.
- Frost protection.

















Features:

- NFR - Nozzle Flow Reducer, enabling low flow with a relatively large nozzle that prevents clogging.
- Firm Construction - For harsh field conditions.
- Static Operation – No moving parts ensures trouble free operation.
- Excellent Performance - Irrigates with fine drops and no mist.

Technical Specifications:

- Range of flow rates to meet various requirements:
 - 12 - 180 lph (0.05-0.79 gpm).
- Additional flow rates and patters are available, please consult TAVLIT.
- Nominal flow rates at 2.0 bar (29psi).
- Operating pressure: 1.5 - 3.5 bar (22-52 psi).
- Sprayer head are color coded for easy identification.
- Series 4XXX can be supplied as PC (pressure compensated) emitters.
- Energy & Water saving: Emitters can operate at low pressure of 1bar (14.5 psi) and flow rates as low as 10 lph (0.044 gpm).
- 4XXX series can be supplied as pressure compensated emitters.
- Recommended Filtration:
 - 100 mesh for flow rates up to 40 lph, (0.176 gpm).
 - 80 mesh for flows up to 90 lph, (0.396 gpm).
 - 60 mesh for flows up to 160 lph, (0.074 gpm).

* TAVLIT manufactures a range of plastic filters.

Wetting Area (meters) at 2bar and 25 cm height										
Nozzle		lph	4460	4461	4462	4463	4452	4454	4442*	4444**
1.0	•	20			2.4	0.7			0.5x0.8 dist 1.5m	
1.3	•	40	3.2	3.2	3.5	0.9	1.8 radius	2.2 radius	0.6x0.9 dist 2.4m	3.8x1.5 strip
1.3	•	60	4.0	4.0	3.6	0.9	2.0			5.6x1.8 strip
1.8	•	70	3.8	3.8	3.2	0.9	2.0 radius	2.9 radius	0.8x1.2 dist 2.8m	4.0x2.8 strip
2.0	•	90	4.0	4.0	3.3	0.9	2.4 radius		1.0x1.8 dist 3.2m	5.0x2.8 Elliptical
Operating Pressure (bar)			1.5-3.5	1.5-3.5	1.0-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5
SPREADER HEAD										
										
			360°	320° LDE	360°	360°	180°	90°	TWIN ELLIPSE/STRIP	360° ELLIPSE
Wetting area (Feet) at 29 psi and 10" height										
Nozzle		lph	4460	4461	4462	4463	4452	4454	4442*	4444**
0.039	•	0.088			8	2			2x3 DIST 5 FT	
0.051	•	0.176	10	10	11	3	8-Radius	7-Radius	2x3 DIST 8 FT	12x5 strip
0.051	•	0.264	13	13	12	3	7			18x6 strip
0.070	•	0.308	12	12	10	3	7-Radius	10-Radius	2.8x4 DIST 9 FT	13x9 strip
0.078	•	0.396	13	13	11	3	8-Radius		3x6 DIST 10 FT	16x9 strip
Operating Pressure (psi)			22-51	22-51	14.5-51	22-51	22-51	22-51	22-51	22-51

* Dist= Distance from center to center of 2 ellipses.

**Strip=Strip irrigation, (overlapping).

Model 4460

- Full circle Irrigation.
- Diameter up to 4.0 m, (13 Ft).
- Available flow rates: 40-90 lph (0.176-0.396 gpm).
- Recommended working pressure: 2.0 bar (29 psi).



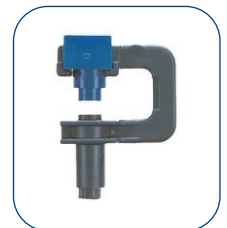
Model 4461

- Irrigates 320° (maintains the area around the trunk of the tree dry).
- Wetting Diameter up to 4.0 m, (13 Ft).
- Available flow rates: 40-90 lph (0.176 - 0.396 gpm).
- Recommended working pressure: 2.0 bar (29 psi).



Model 4462

- Full circle Irrigation.
- Wetting diameter up to 3.3 m (11 Ft).
- Available flow rates: 20-90 lph, (0.088 - 0.396 gpm).
- Recommended working pressure: 2.0 bar (29 psi).



Model 4463

- Full circle Irrigation.
- Very small Wetting Diameter 0.7 up to 0.9 m, (2 - 3 Ft).
- Available flow rates: 20-90 lph, (0.088 - 0.396 gpm).
- Recommended working pressure: 2.0 bar (29 psi).



Model 4452

- Wetting area- 180°.
- Wetting Radius 1.8 up to 2.4 m. (6-8 ft).
- Available flow rates: 40-90 lph (0.176-0.396 gpm).
- Recommended working pressure: 2.0 bar (29 psi).



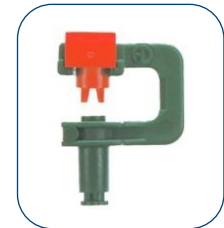
Model 4454

- Wetting area - 90°.
- Wetting Radius 2.2 up to 2.9 m, (8-10Ft).
- Available flow rates: 40, 70 lph, (0.176, 0.308 gpm).
- Recommended working pressure: 2.0 bar (29 psi).



Model 4442 – Twin Sprayer

- Irrigates two small elliptical areas on both sides of the sprayer.
- Irrigates two plants or vines with one sprayer, available flow rate from 10 l/h (0.044 gpm) per each irrigated side.
- Can be spaced in overlapping achieving uniform water distribution in a narrow strip.
- The product can be assembled for upright or inverted position.
- Available flow rates: 20, 40, 70, 90 lph, (0.088, 0.176, 0.308, 0.396 gpm).
- Recommended working pressure: 2bar (29 psi).



Model 4444 – Ellipse / Strip Sprayer

- 4444 - 40, 60 lph (0.176, 0.264 gpm) irrigates a narrow strip.
- 4444 - 70,90 l/h (0.308, 0.396 gpm) irrigates an elliptical area up to:
 - 5.0x2.8 m,(16X9 Ft)
- Recommended working pressure: 2bar (29 psi).

