

LOW ANGLE SPRINKLERS

MagicDrive LA PAT. PENDING



Undertree sprinklers

**Non-Impact 1/2" low volume sprinkler.
Two available models 9° & 14°.**

- Maintenance free
- Extended longevity, No wear and tear
- Special long term warranty

Applications: orchards and plantations, especially bananas and table grape for full coverage irrigation. MagicDrive 14° is also used for irrigation and germination of vegetables and field crops

Structure and features:

- Maintenance free and a long lifespan
- Can function with contaminated water
- Hermetically-sealed silicone chamber protects silicone from leakage
- Silicone and magnet mechanism that ensures constant rotation speed and prevents wear and tear
- Special synchronized diffuser mechanism sectors ensures high wind resistance.
- Color coded nozzle and swivel.
- High-impact and heavy duty plastic materials for resistance to corrosion and UV radiation

MagicDrive - 9° PERFORMANCE TABLE

| Group | Swivel | Diffuser | Nozzle color (mm) | P (bar) | Q (m ³ /h) | D (m) | MSH (cm) |
|-------|-----------|----------|-------------------|---------|-----------------------|-------|----------|
| G4 | Purple 9° | Green | 2.6 Yellow | 1.5 | 0.310 | 18 | 70-100 |
| | | | | 2.0 | 0.365 | 18 | |
| | | | | 2.5 | 0.410 | 18 | |
| | | | | 3.0 | 0.450 | 18 | |
| | | | 2.8 Green | 1.5 | 0.360 | 18 | 70-100 |
| | | | | 2.0 | 0.415 | 18 | |
| | | | | 2.5 | 0.465 | 18 | |
| | | | | 3.0 | 0.510 | 18 | |
| G5 | Purple 9° | Green | 3.0 Light Brown | 1.5 | 0.415 | 17 | 80-100 |
| | | | | 2.0 | 0.485 | 17 | |
| | | | | 2.5 | 0.545 | 17 | |
| | | | | 3.0 | 0.595 | 18 | |
| | | | | 3.5 | 0.650 | 18 | |
| | | | 3.2 Red | 1.5 | 0.465 | 17 | 80-110 |
| | | | | 2.0 | 0.545 | 17 | |
| | | | | 2.5 | 0.615 | 18 | |
| | | | | 3.0 | 0.680 | 18 | |
| | | | | 3.5 | 0.730 | 18 | |

MSH: Maximum Stream Height

MagicDrive -14° PERFORMANCE TABLE - Precipitation rates (mm/hr) and uniformity (CU) at various spacings

| Group | Swivel | Diffuser | Nozzle color (mm) | P (bar) | Q (m ³ /h) | D (m) | MSH (cm) | Spacing (m) | | | | |
|-------|-----------------|----------|-------------------|---------|-----------------------|-------|----------|-------------|-------|-------|-------|-----|
| | | | | | | | | 9x9 | 10x10 | 10x12 | 12x12 | |
| G4 | Gold 14° | Yellow | 2.6 Yellow | 1.5 | 0.310 | 18 | 120-140 | 3.8 | 3.1 | 2.6 | 2.2 | |
| | | | | 2.0 | 0.365 | 19 | | 4.5 | 3.7 | 3.0 | 2.5 | |
| | | | | 2.5 | 0.410 | 19 | | 5.1 | 4.1 | 3.4 | 2.8 | |
| | | | | 3.0 | 0.450 | 19 | | 5.5 | 4.5 | 3.8 | 3.1 | |
| | | | | 3.5 | 0.490 | 19 | | 6.0 | 4.9 | 4.1 | 3.4 | |
| | | | 2.8 Green | 1.5 | 0.360 | 18 | | 4.4 | 3.6 | 3.0 | 2.5 | |
| | | | | 2.0 | 0.415 | 19 | | 5.1 | 4.2 | 3.5 | 2.9 | |
| | | | | 2.5 | 0.465 | 20 | | 5.7 | 4.7 | 3.9 | 3.2 | |
| | | | | 3.0 | 0.510 | 20 | | 6.2 | 5.1 | 4.3 | 3.5 | |
| | | | | 3.5 | 0.550 | 20 | | 6.8 | 5.5 | 4.6 | 3.8 | |
| G5 | Light Brown 14° | Yellow | 3.0 Light Brown | 1.5 | 0.415 | 21 | 120-150 | 5.0 | 4.2 | 3.5 | 2.9 | |
| | | | | 2.0 | 0.485 | 22 | | 6.0 | 4.9 | 4.0 | 3.4 | |
| | | | | 2.5 | 0.545 | 22 | | 6.7 | 5.5 | 4.5 | 3.8 | |
| | | | | 3.0 | 0.595 | 23 | | 7.3 | 6.0 | 5.0 | 4.1 | |
| | | | | 3.5 | 0.650 | 23 | | 8.0 | 6.5 | 5.4 | 4.5 | |
| | | | | 3.2 Red | 1.5 | 0.465 | | 21 | 5.6 | 4.7 | 3.9 | 3.2 |
| | | | | | 2.0 | 0.545 | | 22 | 6.8 | 5.5 | 4.5 | 3.8 |
| | | | 2.5 | | 0.615 | 23 | | 7.7 | 6.2 | 5.1 | 4.3 | |
| | | | 3.0 | | 0.680 | 23 | | 8.4 | 6.8 | 5.7 | 4.7 | |
| | | | 3.5 | | 0.730 | 23 | | 8.9 | 7.3 | 6.1 | 5.1 | |

Color code - Distribution uniformity CU > 92% CU 88-92% CU 85-88% CU 80-85% CU < 80%

* Performance table prepared under laboratory conditions
* For windy conditions use closer spacing