

## I-90

The robust I-90 Rotor is built for long-distance natural turf applications in large parks, open spaces, and sports fields.

### KEY BENEFITS

- Exclusive PressurePort™ Technology creates exceptional nozzle uniformity
- Forward-facing triple nozzles (I-90), opposing triple nozzles (I-90-ON) create uniform nozzle profiles in part- and full-circle applications
- QuickCheck™ Arc Mechanism for fast arc adjustment and review of the arc setting
- Part- and full-circle in one model provides flexible installation options and decreases inventory (I-90)
- Drain Check Valve prevents low-head drainage (up to 2 meters of elevation)

### Operating Specifications

- I-90 nozzle choices: 8
- Radius I-90 ADV: 20.1 to 29.6 m
- Radius I-90 36V: 22.3 to 31.4 m
- Flow I-90 ADV: 6.7 to 19.04 m<sup>3</sup>/hr; 111.7 l/min
- Flow I-90 36V: 6.93 to 18.92 m<sup>3</sup>/hr; 115.5 to 315.3 l/min
- Recommended pressure range: 5.5 to 8.3 bar; 550 to 830 kPa
- Operating pressure range: 5.5 to 8.3 bar; 550 to 1030 kPa
- Precipitation rate: 19 mm/hr approximately
- Warranty period: 5 years

### Factory-Installed Options

- Reclaimed water ID

### User-Installed Options

- [Prefabricated PVC HSJ Swing Joints](#)
- Rubber Cover Kit P/N 959300SP
- Rubber Cover Kit P/N 234200
- Sod Cup Kit P/N 467955
  - No-dig servicing
  - No-dig arc adjustments
  - Quick-release turf cup assembly
  - Threads in cup lock/retain the turf



## I-90-ADV NOZZLE PERFORMANCE DATA

| Nozzle            | Pressure |     | Radius | Flow               |       | Precip mm/hr |      |
|-------------------|----------|-----|--------|--------------------|-------|--------------|------|
|                   | bar      | kPa | m      | m <sup>3</sup> /hr | l/min | ■            | ▲    |
| 25 °<br>Lt. Blue  | 5.5      | 550 | 20.1   | 6.70               | 111.7 | 33.1         | 38.2 |
|                   | 6.0      | 600 | 20.4   | 7.16               | 119.2 | 34.3         | 39.6 |
|                   | 7.0      | 700 | 20.7   | 7.54               | 125.7 | 35.1         | 40.5 |
|                   | 7.5      | 750 | 21.0   | 8.09               | 134.8 | 36.6         | 42.2 |
| 33 °<br>Grey      | 5.5      | 550 | 20.7   | 8.22               | 137.0 | 38.3         | 44.2 |
|                   | 6.0      | 600 | 21.0   | 8.68               | 144.6 | 39.2         | 45.3 |
|                   | 7.0      | 700 | 21.3   | 9.18               | 152.9 | 40.3         | 46.6 |
|                   | 7.5      | 750 | 21.6   | 9.68               | 161.3 | 41.3         | 47.7 |
| 38 °<br>Red       | 5.5      | 550 | 21.9   | 9.22               | 153.7 | 38.3         | 44.2 |
|                   | 6.0      | 600 | 22.3   | 9.77               | 162.8 | 39.5         | 45.6 |
|                   | 7.0      | 700 | 22.9   | 10.31              | 171.9 | 39.5         | 45.6 |
|                   | 7.5      | 750 | 23.2   | 10.81              | 180.2 | 40.3         | 46.5 |
| 43 °<br>Dk. Brown | 5.5      | 550 | 22.6   | 10.47              | 174.5 | 41.2         | 47.5 |
|                   | 6.0      | 600 | 22.6   | 11.02              | 183.6 | 43.3         | 50.0 |
|                   | 7.0      | 700 | 22.9   | 11.52              | 191.9 | 44.1         | 50.9 |
|                   | 7.5      | 750 | 23.5   | 12.13              | 202.1 | 44.0         | 50.9 |
| 48 °<br>Dk. Green | 5.5      | 550 | 23.5   | 11.40              | 190.0 | 41.4         | 47.8 |
|                   | 6.0      | 600 | 24.1   | 11.95              | 199.1 | 41.2         | 47.6 |
|                   | 7.0      | 700 | 24.7   | 12.52              | 208.6 | 41.1         | 47.4 |
|                   | 7.5      | 750 | 25.0   | 13.06              | 217.7 | 41.8         | 48.3 |
| 53 °<br>Dk. Blue* | 5.5      | 550 | 24.7   | 12.47              | 207.8 | 40.9         | 47.2 |
|                   | 6.0      | 600 | 25.6   | 12.99              | 216.5 | 39.6         | 45.8 |
|                   | 7.0      | 700 | 26.2   | 13.52              | 225.2 | 39.3         | 45.4 |
|                   | 7.5      | 750 | 26.5   | 14.11              | 235.1 | 40.1         | 46.3 |
|                   | 8.0      | 800 | 26.8   | 14.63              | 243.8 | 40.7         | 47.0 |
| 63 °<br>Black     | 5.5      | 550 | 26.2   | 14.15              | 235.8 | 41.2         | 47.6 |
|                   | 6.0      | 600 | 26.8   | 14.88              | 247.9 | 41.4         | 47.8 |
|                   | 7.0      | 700 | 27.4   | 15.67              | 261.2 | 41.7         | 48.1 |
|                   | 7.5      | 750 | 27.7   | 16.33              | 272.2 | 42.5         | 49.0 |
|                   | 8.0      | 800 | 28.0   | 16.97              | 282.8 | 43.2         | 49.8 |
| 73 °<br>Orange    | 5.5      | 550 | 27.1   | 16.51              | 275.2 | 44.9         | 51.8 |
|                   | 6.0      | 600 | 27.7   | 17.13              | 285.4 | 44.5         | 51.4 |
|                   | 7.0      | 700 | 28.3   | 17.74              | 295.6 | 44.2         | 51.0 |
|                   | 7.5      | 750 | 29.0   | 18.38              | 306.2 | 43.8         | 50.6 |
|                   | 8.0      | 800 | 29.6   | 19.04              | 317.2 | 43.5         | 50.3 |

\* Factory-installed nozzle

**Notes:**

Precipitation rates for ADV models are calculated for 180-degree operation. All triangular rates are equilateral. For low angle nozzle performance, reduce radius by 15%. Complies to ASAE standard.

## I-90-36V NOZZLE PERFORMANCE DATA

| Nozzle            | Pressure |     | Radius | Flow               |       | Precip mm/hr |      |
|-------------------|----------|-----|--------|--------------------|-------|--------------|------|
|                   | bar      | kPa | m      | m <sup>3</sup> /hr | l/min | ■            | ▲    |
| 25 °<br>Lt. Blue  | 5.5      | 550 | 22.3   | 6.93               | 115.5 | 14.0         | 16.2 |
|                   | 6.0      | 600 | 22.9   | 7.36               | 122.6 | 14.1         | 16.3 |
|                   | 7.0      | 700 | 23.2   | 7.79               | 129.8 | 14.5         | 16.8 |
|                   | 7.5      | 750 | 23.8   | 8.29               | 138.2 | 14.7         | 16.9 |
| 33 °<br>Grey      | 5.5      | 550 | 23.5   | 8.25               | 137.4 | 15.0         | 17.3 |
|                   | 6.0      | 600 | 23.8   | 8.72               | 145.4 | 15.4         | 17.8 |
|                   | 7.0      | 700 | 24.4   | 9.22               | 153.7 | 15.5         | 17.9 |
|                   | 7.5      | 750 | 24.7   | 9.70               | 161.6 | 15.9         | 18.4 |
| 38 °<br>Red       | 5.5      | 550 | 24.4   | 9.22               | 153.7 | 15.5         | 17.9 |
|                   | 6.0      | 600 | 25.0   | 9.75               | 162.4 | 15.6         | 18.0 |
|                   | 7.0      | 700 | 25.3   | 10.29              | 171.5 | 16.1         | 18.6 |
|                   | 7.5      | 750 | 25.9   | 10.84              | 180.6 | 16.1         | 18.6 |
| 43 °<br>Dk. Brown | 5.5      | 550 | 25.3   | 10.49              | 174.9 | 16.4         | 18.9 |
|                   | 6.0      | 600 | 25.6   | 11.04              | 184.0 | 16.8         | 19.4 |
|                   | 7.0      | 700 | 25.9   | 11.56              | 192.7 | 17.2         | 19.9 |
|                   | 7.5      | 750 | 26.2   | 12.13              | 202.1 | 17.7         | 20.4 |
| 48 °<br>Dk. Green | 5.5      | 550 | 26.2   | 11.27              | 187.8 | 16.4         | 18.9 |
|                   | 6.0      | 600 | 27.1   | 11.93              | 198.7 | 16.2         | 18.7 |
|                   | 7.0      | 700 | 27.4   | 12.45              | 207.4 | 16.5         | 19.1 |
|                   | 7.5      | 750 | 27.7   | 13.02              | 216.9 | 16.9         | 19.5 |
| 53 °<br>Dk. Blue* | 5.5      | 550 | 27.1   | 12.31              | 205.2 | 16.7         | 19.3 |
|                   | 6.0      | 600 | 27.4   | 12.88              | 214.6 | 17.1         | 19.8 |
|                   | 7.0      | 700 | 28.0   | 13.45              | 224.1 | 17.1         | 19.7 |
|                   | 7.5      | 750 | 28.3   | 14.02              | 233.6 | 17.4         | 20.1 |
|                   | 8.0      | 800 | 28.7   | 14.58              | 243.0 | 17.8         | 20.5 |
| 63 °<br>Black     | 5.5      | 550 | 28.0   | 14.36              | 239.2 | 18.3         | 21.1 |
|                   | 6.0      | 600 | 28.7   | 14.97              | 249.5 | 18.2         | 21.1 |
|                   | 7.0      | 700 | 29.3   | 15.76              | 262.7 | 18.4         | 21.3 |
|                   | 7.5      | 750 | 29.6   | 16.36              | 272.5 | 18.7         | 21.6 |
|                   | 8.0      | 800 | 29.9   | 17.01              | 283.5 | 19.1         | 22.0 |
| 73 °<br>Orange    | 5.5      | 550 | 29.3   | 16.38              | 272.9 | 19.1         | 22.1 |
|                   | 6.0      | 600 | 29.9   | 17.04              | 283.9 | 19.1         | 22.0 |
|                   | 7.0      | 700 | 30.2   | 17.67              | 294.5 | 19.4         | 22.4 |
|                   | 7.5      | 750 | 31.1   | 18.29              | 304.7 | 18.9         | 21.8 |
|                   | 8.0      | 800 | 31.4   | 18.92              | 315.3 | 19.2         | 22.2 |

\* Factory installed nozzle.

**Notes:**

Precipitation rates for 36V models are calculated for 360-degree operation. All triangular rates are equilateral. For low angle nozzle performance, reduce radius by 15%. Complies to ASAE standard.

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