

# I-90

Radius: **22.3 to 31.4 m**  
Flow: **6.7 to 19.04 m<sup>3</sup>/hr; 111.7 to 317.2 l/min**

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

## KEY BENEFITS

- PressurePort™ Technology, forward-facing triple nozzles (I-90), opposing triple nozzles (I-90-ON) create exceptional nozzle uniformity in part- and full-circle applications
- Part- and full-circle in one model provides flexible installation options and reduces inventory (I-90)
- Drain Check Valve prevents low-head drainage (up to 2 m 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
- 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

- Rubber Cover Kit #234201
- Turf Cup Kit #467955
- HSJ prefabricated PVC 1½" (40 mm) Swing Joints



**I-90**  
Overall height:  
ADV/36V: 28 cm  
Pop-up height: 8 cm  
Exposed diameter: 9 cm  
Inlet size: 1½" (40 mm) BSP



**Turf Cup Kit**  
P/N 467955



**Rubber Cover Kits**  
I90-ADV: P/N 234200  
I90-36V: P/N 234201



**I-90 Reclaimed**  
Available as a factory-installed option on all models

### I-90 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

| 1 Model            | 2 Standard Features   | 3 Feature Options  | 4 Nozzle Options                                    |
|--------------------|---|--|---|
| I-90 = 8 cm pop-up | Plastic riser, check valve, and 8 standard trajectory nozzles | <b>ADV</b> = Adjustable arc<br><b>ARV</b> = Adjustable arc and reclaimed water ID<br><b>36V</b> = Full-circle, opposing nozzles<br><b>3RV</b> = Full-circle, opposing nozzles and reclaimed water ID<br><b>B</b> = BSP inlet threads | <b>#25 to #73</b> = Factory-installed nozzle number |

#### Examples:

- I-90-ADV-B = 8 cm pop-up, adjustable arc, with BSP inlet threads
- I-90-36V-B-43 = 8 cm pop-up, full-circle, opposing nozzles, with BSP inlet threads, and #43 nozzle
- I-90-3RV-B-63 = 8 cm pop-up, full-circle, opposing nozzles, reclaimed water ID, with BSP inlet threads, and #63 nozzle

| I-90-ADV NOZZLE PERFORMANCE DATA |          |     |             |                    |       |              |      |
|----------------------------------|----------|-----|-------------|--------------------|-------|--------------|------|
| Nozzle                           | Pressure |     | Radius<br>m | Flow               |       | Precip mm/hr |      |
|                                  | bar      | kPa |             | m <sup>3</sup> /hr | l/min | ■            | ▲    |
| <b>25</b> ●<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 |
| <b>33</b> ●<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 |
| <b>38</b> ●<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 |
| <b>43</b> ●<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 |
| <b>48</b> ●<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 |
| <b>53</b> ●<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 |
| <b>63</b> ●<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 |
| <b>73</b> ●<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° operation. Precipitation rates for 36V models are calculated for 360° operation. All triangular rates are equilateral. Complies to ASAE standard.

| I-90-36V NOZZLE PERFORMANCE DATA |          |     |             |                    |       |              |      |
|----------------------------------|----------|-----|-------------|--------------------|-------|--------------|------|
| Nozzle                           | Pressure |     | Radius<br>m | Flow               |       | Precip mm/hr |      |
|                                  | bar      | kPa |             | m <sup>3</sup> /hr | l/min | ■            | ▲    |
| <b>25</b> ●<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 |
| <b>33</b> ●<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 |
| <b>38</b> ●<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 |
| <b>43</b> ●<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 |
| <b>48</b> ●<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 |
| <b>53</b> ●<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 |
| <b>63</b> ●<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 |
| <b>73</b> ●<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 |

**I-90 NOZZLE**



ADV & 36V

**I-90**

