

I-90

Radius: **22.3 to 31.4 m**
 Flow: **6.7 to 19.04 m³/hr; 111.7 to 317.2 l/min**
 Inlet: **1½" BSP**

FEATURES

- Model: 8 cm
- Arc setting: 40° to 360°
- Dual trajectory nozzle choices:
 - 8 standard trajectory (22.5°)
 - 8 low angle trajectory (15°)
- Nozzle range: #25 to #73
- Exclusive Pressure Port™ nozzle technology
- Through-the-top arc adjustment
- QuickCheck™ arc mechanism
- Water lubricated gear-drive
- Standard factory installed nozzle: #53
- Factory installed rubber logo cap
- Warranty period: 5 years
- ▶ Opposing nozzle 360° model
- ▶ Dual trajectory colour-coded nozzles
- ▶ Optional reclaimed water ID
- ▶ Drain check valve (up to 2 m of elevation)



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

OPERATING SPECIFICATIONS

- Radius:
 - I90-ADV: 20.1 m to 29.6 m
 - I90-36V: 22.3 m to 31.4 m
- Flow:
 - I90-ADV: 6.70 to 19.04 m³/hr; 111.7 to 317.2 l/min
 - I90-36V: 6.93 to 18.92 m³/hr; 115.5 to 315.3 l/min
- Recommended pressure range: 5.5 to 8.0 bar; 550 to 800 kPa
- Operating pressure range: 5.0 to 8.0 bar; 500 to 800 kPa
- Precipitation rates: 19 mm/hr approximately (360°)

USER-INSTALLED OPTIONS

- Turf Cup Kit
 - I-90 all: P/N 467955
 - Rubber Cover Kit
 - I-90-ADV: P/N 234200 (all)
 - I-90-36V: P/N 234200 (0711 date code and after)
 - I-90-36V: P/N 234201 (0611 date code and prior only)
 - Low-Angle Nozzles: #25 to #73
- ▶ = *Advanced Feature descriptions on page 18*



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 | ADV = Adjustable arc ARV = Adjustable arc and reclaimed water ID 36V = Full-circle, opposing nozzles 3RV = Full-circle, opposing nozzles and reclaimed water ID B = BSP inlet threads | #25 to #73 = 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 m | Flow | | Precip mm/hr | |
| | bar | kPa | | m ³ /hr | l/min | ■ | ▲ |
| 25 ● 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 ● 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 |
| 38 ● 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 |
| 43 ● 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 ● 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 |
| 53 ● 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 |
| 63 ● 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 |
| 73 ● 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 | |

| I-90-36V NOZZLE PERFORMANCE DATA | | | | | | | |
|----------------------------------|----------|------|-------------|--------------------|-------|--------------|------|
| Nozzle | Pressure | | Radius m | Flow | | Precip mm/hr | |
| | bar | kPa | | m ³ /hr | l/min | ■ | ▲ |
| 25 ● 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 ● 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 |
| 38 ● 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 ● 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 ● 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 |
| 53 ● 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 |
| 63 ● 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 |
| 73 ● 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 | |



** For low angle nozzle performance, reduce radius by 15%.

* 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



ROTORS