

COMMERCIAL - MUNICIPAL & SPORTS TURF ROTORS

7500/7510E

7500-Pro Standard with ADV

7500RW/7510ERW

7500-Pro for Reclaimed Water & ADV

7503 (7513E)

7503-Pro High speed rotation, stainless steel riser and ADV

Note: "E" versions (or versions in parenthesis) feature BSP threading

7503



7500



7500RW



Accessories

6101

Sod Cup Kit

6102

Lavender Cover

6097

Wrench

6097



6101



6102



SPECIFICATIONS

OPERATING RANGE:

40-90 psi (2,7 – 6,2 bar)

MAXIMUM PRESSURE:

100 psi (6,9 bar)

DISCHARGE:

9.4 to 27.5 gpm (2,13 – 6,24 m³/hr)

SPRAY TRAJECTORY:

25°

POP-UP HEIGHT:

4½" (11,4 cm)

BODY HEIGHT:

9½" (24,1 cm)

EXPOSED CAP DIAMETER:

2½" (6,3 cm)

TYPE OF CAP:

Rubber with locking screw

INLET SIZE:

1" (25,4 mm) female NPT (7500, 7503)

1" (25,4 mm) female BSP (7510E, 7513E)

SCREEN MESH:

.045 sq. in. (1,14 mm²) / 1150 micron

ADV MODELS:

Holds back up to 10' (3 m) difference in elevation

PER BOX:

10

7500 PRO SERIES

25° trajectory (Part Numbers - 77579)
Nozzle color



FEATURES

- NIR² feature (Nozzle Insertion/Radius Reduction) on all models eliminates the need to remove the cap for nozzle adjustments.
- Six interchangeable Acu-Cover nozzles ranging from 9.4 to 27.5 gpm (2,13 – 6,24 m³/hr).
- Rubber cap has two locking screws for vandal protection.
- Click-Set[®] collars are quick and easy to adjust
- Gear drive may be installed ½" (1,3 cm) below grade.
- Proven reliability of the water driven gear motor
- Continuous 360° rotation or part-circle adjustable 40° to 310°.
- Heavy-duty case with stabilizer ribs increases stability even in loose soil.
- Ratcheting slip clutch protects gears and motor from damage while adjusting turret for part-circle adjustments - wet or dry.
- Wrench, piston clamp and installation instructions included.



| Pressure | Max Radius | Min Radius | Discharge | Precipitation Rate ¹ | | Nozzle Number | Pressure | Max Radius | Min Radius | Discharge | Precipitation Rate ¹ | |
|----------|------------|------------|-----------|---------------------------------|--------|---------------|----------|------------|------------|-----------|---------------------------------|--------------------|
| | | | | IN/HR | IN/HR▲ | | | | | | mm/hr | mm/hr▲ |
| PSI | FT | FT | GPM | IN/HR | IN/HR▲ | | BAR | kPa | m | m | L/min | m ³ /hr |
| 45 | 53 | 40 | 9.4 | 0.64 | 0.80 | 3 | 3.1 | 310 | 16.2 | 12.1 | 35.6 | 2.13 |
| 60 | 56 | 42 | 10.9 | 0.67 | 0.83 | | 4.1 | 414 | 17.1 | 12.8 | 41.3 | 2.47 |
| 75 | 57 | 43 | 12.2 | 0.72 | 0.90 | | 5.2 | 517 | 17.4 | 13.0 | 46.2 | 2.77 |
| 90 | 58 | 44 | 13.4 | 0.77 | 0.96 | | 6.2 | 621 | 17.7 | 13.3 | 50.7 | 3.04 |
| 45 | 54 | 41 | 11.4 | 0.75 | 0.94 | 4 | 3.1 | 310 | 16.5 | 12.4 | 43.1 | 2.59 |
| 60 | 59 | 44 | 13.2 | 0.73 | 0.91 | | 4.1 | 414 | 18.0 | 13.5 | 50.0 | 3.00 |
| 75 | 61 | 46 | 14.9 | 0.77 | 0.96 | | 5.2 | 517 | 18.6 | 14.0 | 56.4 | 3.38 |
| 90 | 62 | 47 | 16.4 | 0.82 | 1.02 | | 6.2 | 621 | 18.9 | 14.2 | 62.1 | 3.72 |
| 45 | 57 | 43 | 12.3 | 0.73 | 0.91 | 5 | 3.1 | 310 | 17.4 | 13.0 | 46.6 | 2.79 |
| 60 | 61 | 46 | 14.4 | 0.75 | 0.93 | | 4.1 | 414 | 18.6 | 14.0 | 54.5 | 3.27 |
| 75 | 65 | 49 | 16.2 | 0.74 | 0.92 | | 5.2 | 517 | 19.8 | 14.9 | 61.3 | 3.68 |
| 90 | 66 | 50 | 17.8 | 0.79 | 0.98 | | 6.2 | 621 | 20.1 | 15.1 | 67.4 | 4.04 |
| 60 | 64 | 48 | 17.5 | 0.82 | 1.03 | 6 | 4.1 | 414 | 19.5 | 14.6 | 66.2 | 3.97 |
| 75 | 68 | 51 | 20.0 | 0.83 | 1.04 | | 5.2 | 517 | 20.7 | 15.6 | 75.7 | 4.54 |
| 90 | 68 | 51 | 22.1 | 0.92 | 1.15 | | 6.2 | 621 | 20.7 | 15.6 | 83.6 | 5.02 |
| 60 | 65 | 49 | 19.6 | 0.89 | 1.11 | 7 | 4.1 | 414 | 19.8 | 14.9 | 74.2 | 4.45 |
| 75 | 69 | 52 | 21.3 | 0.86 | 1.07 | | 5.2 | 517 | 21.0 | 15.8 | 80.6 | 4.84 |
| 90 | 73 | 55 | 24.6 | 0.89 | 1.11 | | 6.2 | 621 | 22.3 | 16.7 | 93.1 | 5.58 |
| 60 | 66 | 50 | 21.8 | 0.96 | 1.20 | 8 | 4.1 | 414 | 20.1 | 15.1 | 82.5 | 4.95 |
| 75 | 71 | 53 | 24.8 | 0.95 | 1.18 | | 5.2 | 517 | 21.7 | 16.2 | 93.9 | 5.63 |
| 90 | 74 | 56 | 27.5 | 0.97 | 1.21 | | 6.2 | 621 | 22.6 | 16.9 | 104.1 | 6.24 |

¹ Precipitation rates for square and triangular spacing calculated at 50% of diameter for half-circle operation. Assumes zero wind for precipitation and radius. Adjust for local conditions.

7503/7513 PRO HIGH SPEED

25° trajectory (Part Numbers - 77579)
Nozzle color



| Pressure | Max Radius | Min Radius | Discharge | Precipitation Rate ¹ | | Nozzle Number | Pressure | Max Radius | Min Radius | Discharge | Precipitation Rate ¹ | |
|----------|------------|------------|-----------|---------------------------------|--------|---------------|----------|------------|------------|-----------|---------------------------------|--------------------|
| | | | | IN/HR | IN/HR▲ | | | | | | mm/hr | mm/hr▲ |
| PSI | FT | FT | GPM | IN/HR | IN/HR▲ | | BAR | kPa | m | m | L/min | m ³ /hr |
| 45 | 48 | 36 | 9.4 | 0.79 | 0.98 | 3 | 3.1 | 310 | 14.6 | 11.0 | 35.6 | 2.13 |
| 60 | 50 | 38 | 10.9 | 0.84 | 1.05 | | 4.1 | 414 | 15.3 | 11.4 | 41.3 | 2.47 |
| 75 | 50 | 38 | 12.2 | 0.94 | 1.17 | | 5.2 | 517 | 15.3 | 11.4 | 46.2 | 2.77 |
| 90 | 53 | 40 | 13.4 | 0.92 | 1.15 | | 6.2 | 621 | 16.2 | 12.1 | 50.7 | 3.04 |
| 45 | 51 | 38 | 11.4 | 0.84 | 1.05 | 4 | 3.1 | 310 | 15.6 | 11.7 | 43.1 | 2.59 |
| 60 | 54 | 41 | 13.2 | 0.87 | 1.09 | | 4.1 | 414 | 16.5 | 12.4 | 50.0 | 3.00 |
| 75 | 55 | 41 | 14.9 | 0.95 | 1.18 | | 5.2 | 517 | 16.8 | 12.6 | 56.4 | 3.38 |
| 90 | 55 | 41 | 16.4 | 1.04 | 1.30 | | 6.2 | 621 | 16.8 | 12.6 | 62.1 | 3.72 |
| 45 | 52 | 39 | 12.3 | 0.88 | 1.09 | 5 | 3.1 | 310 | 15.9 | 11.9 | 46.6 | 2.79 |
| 60 | 55 | 41 | 14.4 | 0.92 | 1.14 | | 4.1 | 414 | 16.8 | 12.6 | 54.5 | 3.27 |
| 75 | 57 | 43 | 16.2 | 0.96 | 1.20 | | 5.2 | 517 | 17.4 | 13.0 | 61.3 | 3.68 |
| 90 | 58 | 44 | 17.8 | 1.02 | 1.27 | | 6.2 | 621 | 17.7 | 13.3 | 67.4 | 4.04 |
| 60 | 58 | 44 | 17.5 | 1.00 | 1.25 | 6 | 4.1 | 414 | 17.7 | 13.3 | 66.2 | 3.97 |
| 75 | 60 | 45 | 20.0 | 1.07 | 1.33 | | 5.2 | 517 | 18.3 | 13.7 | 75.7 | 4.54 |
| 90 | 61 | 46 | 22.1 | 1.14 | 1.43 | | 6.2 | 621 | 18.6 | 14.0 | 83.6 | 5.02 |
| 60 | 58 | 44 | 19.6 | 1.12 | 1.40 | 7 | 4.1 | 414 | 17.7 | 13.3 | 74.2 | 4.45 |
| 75 | 60 | 45 | 21.3 | 1.14 | 1.42 | | 5.2 | 517 | 18.3 | 13.7 | 80.6 | 4.84 |
| 90 | 61 | 46 | 24.6 | 1.27 | 1.59 | | 6.2 | 621 | 18.6 | 14.0 | 93.1 | 5.58 |
| 60 | 59 | 44 | 21.8 | 1.21 | 1.50 | 8 | 4.1 | 414 | 18.0 | 13.5 | 82.5 | 4.95 |
| 75 | 61 | 46 | 24.8 | 1.28 | 1.60 | | 5.2 | 517 | 18.6 | 14.0 | 93.9 | 5.63 |
| 90 | 64 | 48 | 27.5 | 1.29 | 1.61 | | 6.2 | 621 | 19.5 | 14.6 | 104.1 | 6.24 |

¹ Precipitation rates for square and triangular spacing calculated at 50% of diameter for half-circle operation. Assumes zero wind for precipitation and radius. Adjust for local conditions.

ROTORS

SIGNATURE CONTROL SYSTEMS, INC.

WORLD HEADQUARTERS
18 Goodyear • Suite 110
Irvine • California • 92618
Tel: 949.580.3640
Fax: 949.580.3645

MANUFACTURING FACILITY
8800 N. Allen Rd.,
Peoria • Illinois • 61615
Tel: 949.580.3640
Fax: 949.580.3645

EUROPE & MIDDLE EAST
5 rue de la Vallée Yart
78640 Saint Germain de la Grange
France
Tel: +33.13.489.9056
Fax: +33.13.489.6025

REGIONAL OFFICES
ASIA
NanXian Plaza • MinZhi Street • Shenzhen,
Guangdong Province • 518131
Tel: (86) 136.00419465 • Fax: (86) 755.83275012
SOUTH AMERICA
Av Paseo Los Bravos 6000 • Lo Barnechea
Santiago • Chile
Tel/Fax: +56 229.556220

MEXICO, CENTRAL AMERICA
Ribera Escondida 118 • Riberas Del Campestre
38080 Celaya • Gto. • Mexico
Tel/Fax: +52 (461) 614.2322
AFRICA
P.O. Box 1260 • Strubensville 1735
Roodepoort • South Africa
Office & Mobile: +27 82 553 9093 • Fax: 086 670 6318

USA Toll Free: 866.4SIGNATURE

www.SignatureControlSystems.com