Root Watering Series

Primary Application

The Rain Bird Root Watering Series enables vital water, air and nutrients to bypass compacted soil and directly reach tree and shrub root systems. Its factory assembled irrigation hardware and patented basket weave canister allows ground installation to a depth of 36" (91 cm) for the RWS, 18" (46 cm) for the RWS-Mini, and 10" (25 cm) for the RWS-Supplemental. This system is intended for use with water dispensing devices, such as a bubbler head or an emitter. This system can be customized by the end user to meet their specific required irrigation needs or can be purchased with pre-installed bubbler and check valve options.

Features and Benefits

- Investment protection
  - » Deep and broad roots yield transplantation survivability, stability in high winds, fast and healthy growth
- Watering efficiency
  - » Subsurface irrigation minimizes run-off and evaporation
- Landscape aesthetics
  - » Installs at grade and helps minimize damage to hardscapes

Models

RWS

RWS-B-C-1401 — Root Watering with 0.25 GPM (1,2 l/m) bubbler & check valve on riser, 4" (10 cm) grate, versatile swing assembly with ½" (15/21) M NPT inlet

RWS-B-1401 — Root Watering with 0.25 GPM (1,2 l/m) bubbler on riser, 4" (10 cm) grate, versatile swing assembly with ½" (15/21) M NPT inlet

RWS-B-X-1401 — Root Watering with 0.25 GPM (1,2 l/m) bubbler on riser, 4" (10 cm) grate, 18" (46 cm) open swing assembly with ½" (15/21) M NPT inlet

RWS — Root Watering Basic, 4" (10 cm) grate, ready for customer-provided irrigation hardware

RWS-B-C-1402 — Root Watering with 0.50 GPM (1,8 l/m) bubbler & check valve on riser, 4" (10 cm) grate, versatile swing assembly with ½" (15/21) M NPT inlet

RWS-B-1402 — Root Watering with 0.50 GPM (1,8 l/m) bubbler on riser, 4" (10 cm) grate, 12" (31 cm) versatile swing assembly with ½" (15/21) M NPT inlet

RWS-B-C-1404 — Root Watering with 1.00 GPM (3,6 l/m) bubbler & check valve on riser, 4" (10 cm) grate, versatile swing assembly with ½" (15/21) M NPT inlet

RWS-B-C-1408 — Root Watering with 2.00 GPM (7,2 l/m) bubbler & check valve on riser, 4" (10 cm) grate, versatile swing assembly with ½" (15/21) M NPT inlet

RWS-Mini

RWS-M-B-C-1401 — Mini Root Watering with 0.25 GPM (1,2 l/m) bubbler & check valve on riser, 4" (10 cm) grate, ½" (15/21) M NPT inlet spiral barb elbow

RWS-M-B-1401 — Mini Root Watering with 0.25 GPM (1,2 l/m) bubbler on riser, 4" (10 cm) grate, ½" (15/21) M NPT inlet spiral barb elbow

RWS-M-B-C-1402 — Mini Root Watering with 0.50 GPM (1,8 l/m) bubbler & check valve on riser, 4" (10 cm) grate, ½" (15/21) M NPT inlet spiral barb elbow

RWS-M-B-1402 — Mini Root Watering with 0.50 GPM (1,8 l/m) bubbler & check valve on riser, 4" (10 cm) grate, ½" (15/21) M NPT inlet spiral barb elbow

RWS-M — Mini Root Watering Basic with 4" (10 cm) grate, ready for customer provided irrigation hardware

RWS/RWS-Mini Accessories

RWS-SOCK — Root Watering Sand Sock (6 per bag)

RWS-GRATE-P — Root Watering 4" (10,2 cm) Purple Grate

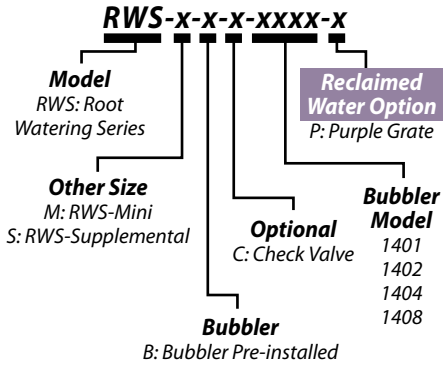
RWS-Supplemental

RWS-S-B-C-1401 — Supplemental Root Watering with 0.25 GPM (1,2 l/m) bubbler & check valve on riser, 2" (5 cm) snap-on cap and base, ½" (15/21) M NPT inlet spiral barb elbow

RWS-S-B-1401 — Supplemental Root Watering with 0.25 GPM (1,2 l/m) bubbler on riser, 2" (5 cm) snap-on cap and base, ½" (15/21) M NPT inlet spiral barb elbow

Root Watering Series

How to Specify/Order:



Reclaimed Water Models

Specifications

The Root Watering Series is the smart watering product line designed to maximize tree and shrub transplanting survivability. It shall consist of a perforated polyethylene cylinder in three different lengths – 36" (91 cm) for large trees, 18" (46 cm) for small trees, and 10" (25 cm) for shrubs and row plantings – and two different widths – 4" (10 cm) for trees and 2" (5 cm) for shrubs and row plantings. The rigid mesh material shall help support the horizontal movement of water into the root zone and adjacent soil. The cylinder shall support pea gravel fill to provide better top-to-bottom water dispersion and firmness against root compression.

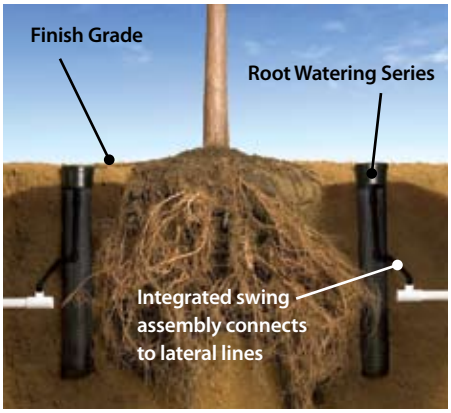
RWS shall be designed with an integrated bubbler and optional check valve. The water being emitted from the bubbler will help train roots away from surfaces and hardscapes, minimize surface erosion and reduce waste due to runoff. The factory-assembled RWS shall come configured with swing assemblies and/or spiral barbed fittings in order to promote irrigation design flexibility, accommodate all tree and shrub sizes, and help save installation time by being ready to install out of the box. The assemblies and fittings shall enable RWS to be directly connected to PVC or polyethylene lateral lines. Models shall be provided without fittings that support integration with drip line.

The RWS, including the RWS-M and RWS-S models, must protect the investment property owners make in trees and shrubs. It shall help trees and shrubs establish deeper and broader roots for better stability against high winds and quicker, healthier growth. The subsurface irrigation design shall improve watering efficiency by minimizing the total volume of water used to irrigate trees and shrubs and minimize water lost due to evaporation and run-off. It shall improve the aesthetics of the landscape by installing at finish grade level and minimizing root damage to hardscapes.

RWS shall support an extra-wide molded collar to provide convenient access to the bubbler and drip line fastener. It shall support a locking grate cover to help deter vandalism. It shall offer a purple, reclaimed water grate cover option. It shall offer a sock option in order to prevent small particles from penetrating the RWS cylinder.

RWS units should be installed on their own watering zone in order to improve irrigation efficiency and management.

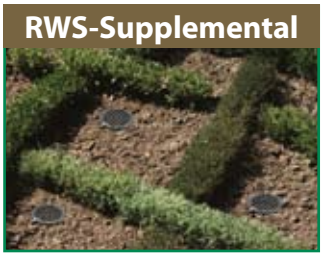
Installation Diagram



- *Position units evenly spaced, adjacent to the root zone and within the canopy of the tree*
- *Consider filling canisters with pea gravel fill to provide better top-to-bottom water dispersion and firmness against root compression.*
- *Optional sand sock should be used for sandy soils*
- *Optional purple grate cover should be used for non-potable water sources*
- *For long-term deep and broad roots, consider installing two RWS perimeters on separate zones—running the inner zone for the first couple of years and the outer zone in subsequent years.*

RWS Root Watering Series Usage Guide

- 2–3 **RWS** units for Large Trees
- 1–2 **RWS-Mini** units for Small Trees
- 1–2 **RWS-Supplemental** units for Shrubs



Rain Bird Corporation
970 West Sierra Madre Ave.
Azusa, CA 91702
Phone: (626) 812-3400
Fax: (626) 812-3411

Rain Bird Corporation
6991 East Southpoint Road
Tuscon, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

Rain Bird International, Inc.
1000 West Sierra Madre Ave
Azusa, CA 91702
Phone: (626) 963-9311
Fax: (626) 852-7343

Technical Services and Support
(800) RAINBIRD (U.S. and Canada only)

Specification Hotline
(800) 458-3005 (U.S. and Canada only)

www.rainbird.com