



**GOLF PRODUCTS &
TECHNICAL INFORMATION**



CONTROLLERS | SATELLITES | CENTRAL CONTROLS | ROTORS | SPRAYS | IMPACTS | VALVES | SENSORS

Intelligence • Information • Irrigation™

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Signature Control Systems has maintained a continuous presence in golf and landscape irrigation since our beginnings in 1907—from brass rotors and valves, to today’s most sophisticated irrigation control systems.

OVERVIEW

Signature Control Systems, Inc. can trace its roots in the irrigation industry to humble beginnings over 100 years ago. Since then, Signature Control Systems has been dedicated to providing the highest-quality products and services in the landscape and irrigation industry.

Signature Control Systems is an industry leader in the design and manufacture of Turf Management Systems including intelligent irrigation controllers, site management software, irrigation valves, gear-drive rotors & spray-head products, thus providing landscape managers, golf course superintendents, as well as property managers’, direct control of their irrigation system, water and energy resources.

To achieve these goals we have invested heavily in our own research and development of new products, product line expansion and manufacturing facilities. We are also committed to increasing our manufacturing capacity of our own products in our own factory in the USA or foreign locations, under our own supervision and quality control.

We are proud to bring to market a full basket of Professional Irrigation products servicing all industry segments and end users of irrigation products. Whether Installer, Designer, Distributor

or End User you will find Signature Control Systems can meet and exceed your irrigation requirements.

In recent years, we have successfully staked a claim as an innovative creator of central control systems that range from the basic to the most complex. Today we have expanded controller ranges and with the advent of water management legislation you will find Signature’s own intellectual property is well positioned to meet and exceed this legislation.

Further and when appropriate, we have and continue to invest in acquisitions that increase our product breadth and depth. As a result of several acquisitions, Signature Control Systems is now a full line manufacturer and supplier to the Irrigation Industry with products that will cover any installation requirement. We are sure that you will be familiar with many of the products you see listed in our catalog and invite you to look at them with the new understanding that Signature Control Systems will be supplying the Irrigation Industry for many years to come with innovative solutions.

Brian J. Smith
PRESIDENT AND CEO

BACKGROUND

You may think that Signature Controls Systems is a fairly new name in the irrigation industry... we are not! We can trace our roots in the irrigation industry to 1907 when we started out as the Thompson Manufacturing Co.

Through a series of strategic acquisitions we now manufacture and distribute a complete line of irrigation equipment needs: battery operated controllers, controllers, satellite controllers, central control systems, gear drive rotors, spray head sprinklers, impact sprinklers, valves, quick coupling valves and sensors.

Not only is Signature a nimble company that can adapt to the changing economies of the world or regional market influences, but we are a company driven by several guiding lights that keep us on track to achieve our most important goal—satisfying our customer. To that end we are market driven, we listen to our customers and make sure any product or service we deliver meets their needs, not just ours.

Signature Control Systems, Inc.'s designs are highly respected in the industry and with the emergence of our new design concepts Signature will certainly play a major role in the future of the irrigation industry.

MAJOR PRODUCT LINES

Some of the names you may recognize:

Aurora® and AuroraLT®
Commercial irrigation satellite controllers

eAurora®
Web-based central control systems

EZ PRO™
Controllers

Aurora SOLO™
Battery operated controllers “No Power ... No Problem”®

The **Aurora®** and **AuroraLT®** range of irrigation controllers and software are industry recognized as the latest technology in cost effective irrigation. Signature Control Systems provides **Aurora** management systems in hardwire, radio and telephone configurations including weather station equipment. In addition, we have a comprehensive range of commercial and large turf sprinklers, valves, and rotors. All Signature Control Systems products are compatible for both domestic and international markets.



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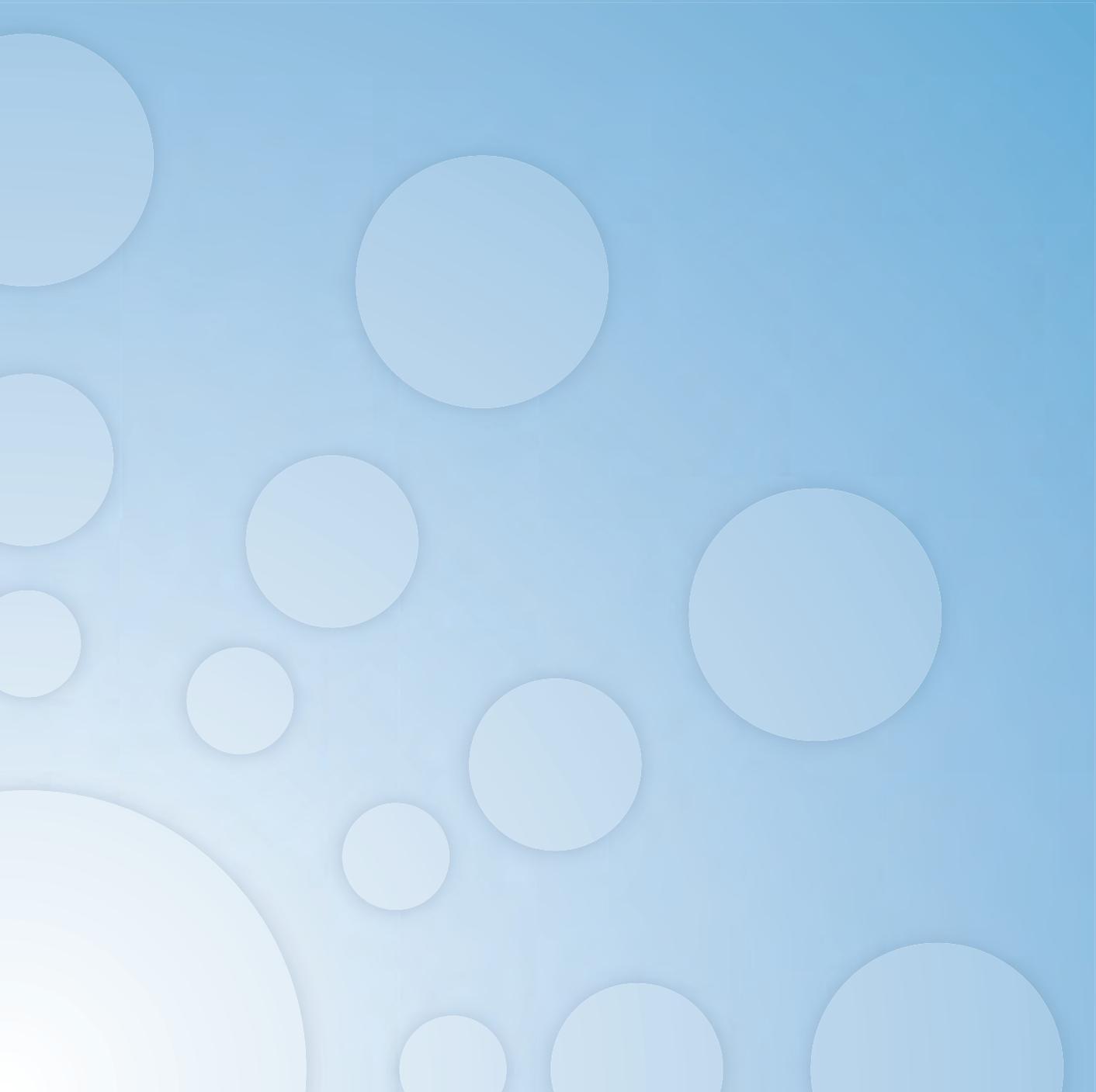
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Signature has sales and service offices throughout the world, and Distributors Worldwide: visit www.SignatureControlSystems.com to find your local distributor.



BATTERY OPERATED CONTROLLERS

APPLICATIONS	Aurora SOLO™ ASO
---------------------	-----------------------------

GREENS	✓
--------	---

FAIRWAYS	✓
----------	---

ROUGHS	✓
--------	---

NEW CONSTRUCTION	✓
------------------	---

ZONE REPAIR	✓
-------------	---

RETROFITTING MANUAL SYSTEMS	✓
--------------------------------	---

ISOLATED AREAS WITHOUT POWER	✓
---------------------------------	---

FEATURES	
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MULTI ZONE	✓
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PROGRAMS	3
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PRODUCT OVERVIEW

Aurora SOLO™



- Multi-zone, valve box mounted, battery operated controller. Available in 1, 2, 4 and 6 zone models.
- 3 Programs
- Operates on two AA batteries for several years depending on usage.
- Waterproof design allows this unit to be submerged up to 6 ft (1,8 m) of water.
- Installs directly on most Signature valves and can be fitted to many other valves through the use of adapters.
- Can have up to 250 ft (76 m) of 18 AWG direct burial wire between the ASO series controller and the DC solenoid.
- All models accommodate normally closed rain, freeze or event sensors.

SPECIFICATIONS

DIMENSIONS (H x W x D)

4¼" (10,8 cm) x 3¼" (8,25 cm)

ELECTRICAL:

Two Energizer® AA alkaline batteries (not included)

IP68DW

ASO DC ADAPTERS*	
Model 77467	
ALL HARDIE/IRRITROL VALVES	
SIGNATURE**:	
7937/7987 (BSP)	7938/7988 (BSP)
Model 77468	
Rainbird:	
PEB, DV, DVF, ASVF, EFB-CP, GB, PGA, PESB, BPE, BPES	
Model 77481	
Weathermatic:	
ALL WEATHERMATIC VALVES	
Model 77516	
Hunter:	
ALL HUNTER VALVES	
Model 77526	
Toro:	
252 SERIES	
* Sold separately ** No adapter required for these valves This is a partial list. Please contact Signature for complete list.	



Aurora Solo™ Kits

ASO1

1 zone Battery Powered Controller Kit

ASO2

2 zone Battery Powered Controller Kit

ASO4

4 zone Battery Powered Controller Kit

ASO6

6 zone Battery Powered Controller Kit

Kit includes: Controller, Solenoids, Waterproof Connectors, 2 Mounting Options & Common Jumper Wires

SoloRain® Controllers

ASO1C

1 zone controller only

ASO2C

2 zone controller only

ASO4C

4 zone controller only

ASO6C

6 zone controller only

FEATURES

Aurora SOLO™ Series:

- FITS MOST SIGNATURE® VALVES
- Available in 1, 2, 4, and 6 zones
- Three start times per program (9 total start times)
- Three independent programs
- Length of programmable watering time (1min to 3hr 59min per zone)
- Four scheduling options to suit the need of plant material or to comply with watering restrictions (days of the week, 1-30 day interval, true odd/even)
- Leap year compatible (automatically includes February 29th)
- 0-200% Water budget programming
- Three test cycles (manual open, cycle, and 3min test)

- Color coded label, wires and solenoid stickers make wiring /zone identification quick and easy!
- Can have up to 250 ft (76 m) of 18 AWG direct burial wire between the solenoid and the ASO Series Controller (Must use Waterproof connectors for splice or your warranty is void)
- Long life battery*
- Operates RainBird® & Hunter® DC latching Solenoids (makes for an easy controller replacement)

* Battery Life will vary depending on environmental conditions and number of zones.

Accessories

ASOSOL

Latching Solenoid

8020P

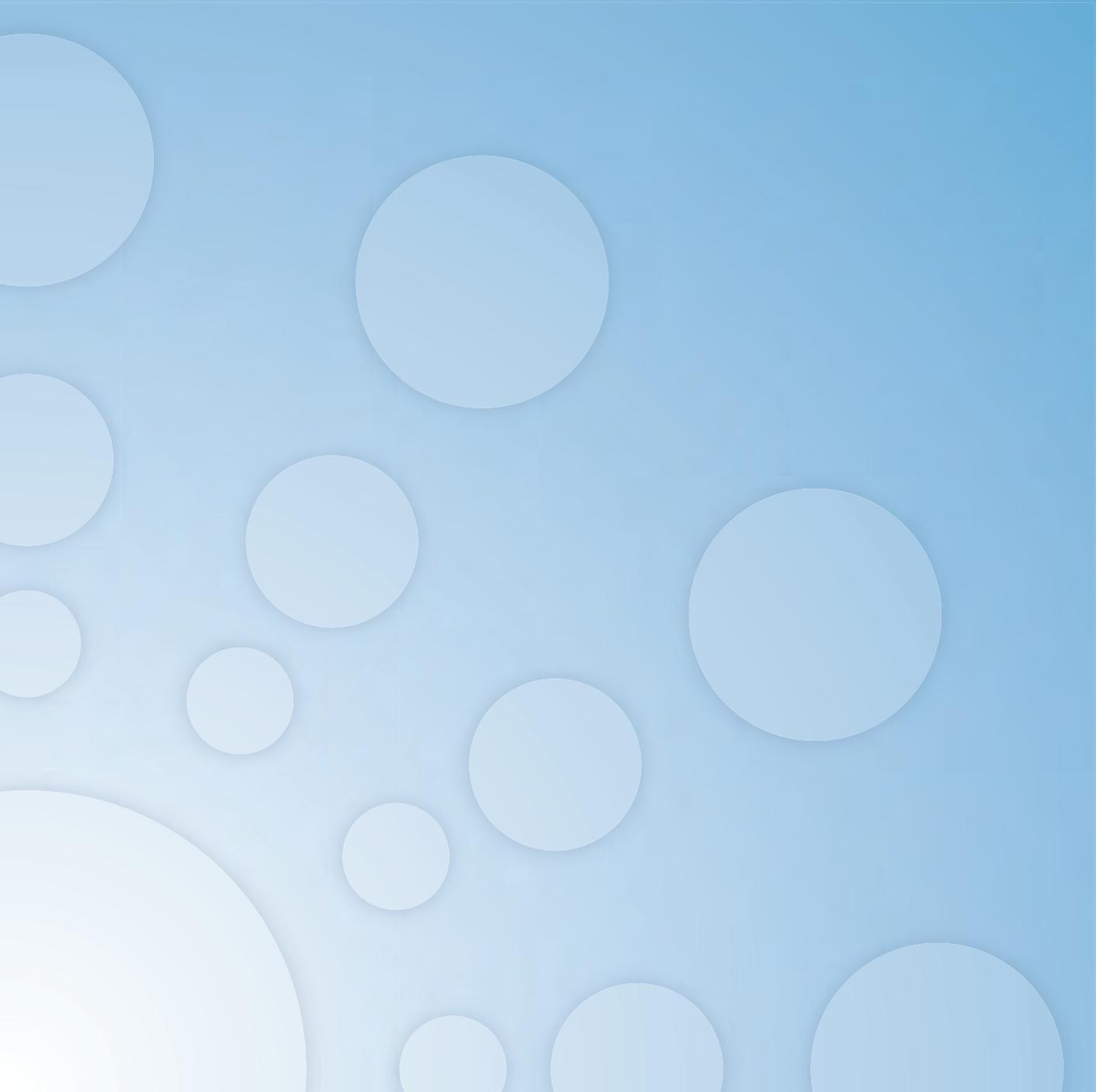
8020 Series Mounting Plate

8020S

8020 Series Mounting Stake

8020GC

8020 Series Waterproof Connectors



CONTROLLERS

APPLICATIONS

Aurora EZ™

CLUBHOUSE	✓
INDOOR	✓
OUTDOOR	✓
UPGRADEABLE TO WEB-BASED CENTRAL CONTROL	✓

FEATURES

PROGRAMS	3
ZONES	8, 12, 16, 20, 24

PRODUCT OVERVIEW

Aurora EZ™



- Three programs, multiple start times and schedule options. The Aurora EZ™ series is capable of 9 hours 59 minutes of run time per zone.
- Available in 8, 12, 16, 20, and 24 zones.
- Nonvolatile memory stores programs without AC power or AA batteries.
- 1.0 amp self resetting fuse for short circuit zone protection.
- The Aurora EZ™ comes in an indoor / outdoor weather resistant plastic cabinet with an internal transformer.
- This series is packed with many advanced water management features such as global water budgeting, water budgeting by month and a built in sensor input.
- Central control ready. Just install the EZ Pro™ Live communications module and control your controller from anywhere in the world using EZProLive.com

SPECIFICATIONS

MODELS

DIMENSIONS (H x W x D)

9" (22,9 cm) x 12" (30,5 cm) x 5" (12.5 cm)

CABINET:

Weather resistant plastic

OF ZONES:

8, 12, 16, 20, 24

ELECTRICAL:

AEZ08 to AEZ24:

INPUT: 120V AC, 60 Hz

OUTPUT: 24V AC, 1.25 Amp

MCEZ08 to MCEZ24:

INPUT: 230V AC, 50 Hz

OUTPUT: 24V AC, 1.25 Amp

Two Energizer® AA alkaline batteries (not included)

FCC Part 15, Sub Part C, 15.247

UL, COL and CE Listed:

FCC Part 15 Class B compliant



Aurora EZ™
AEZ08 (MCEZ08*)
 8 zone

AEZ12 (MCEZ12*)
 12 zone

AEZ16 (MCEZ16*)
 16 zone

AEZ20 (MCEZ20*)
 20 zone

AEZ24 (MCEZ24*)
 24 zone

* A country code is required after model number:

‘ES’ - Spain

‘IT’ - Italy

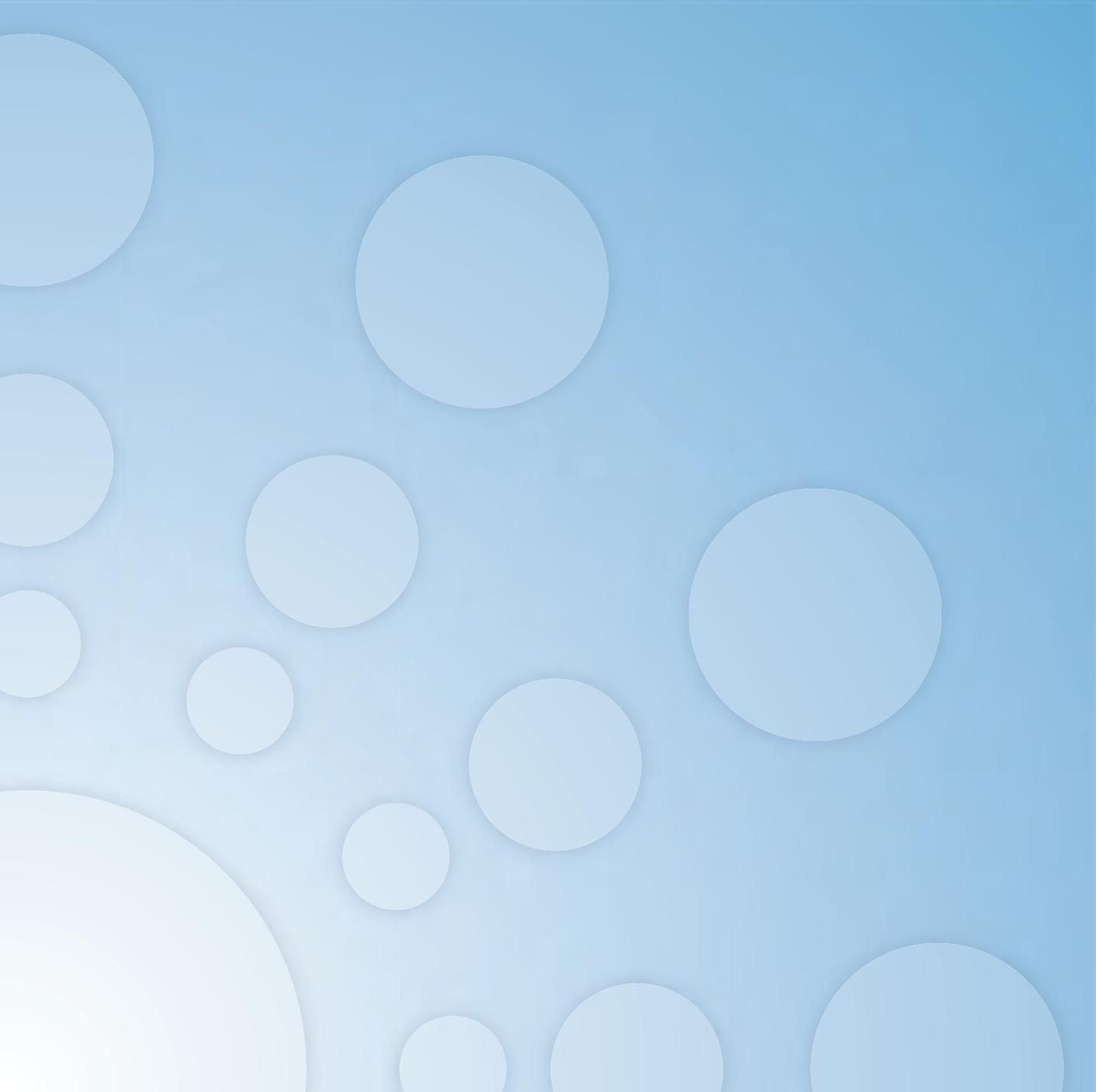
‘PT’ - Portugal

‘FR’ - France

Upgradeable to EZ Pro™ Live.
 Optional equipment required.
 See page 24.

FEATURES

- Non-volatile memory stores programs without AC power or batteries
- Two AA batteries keep correct time for one year
- Stacking start times
- Pump start programmable by zone
- Programmable Rain Delay to 99 days
- Three independent programs
- Four start times per program
- Three scheduling options to suit the needs of plant material or to comply with watering restrictions (7 day calendar, 1-30 day interval, true odd/even)
- Leap year compatible
- Water budget option reduces or increases watering 0-200 percent
- Advanced water budget to set water budget for each month of the year
- Three test cycles (Manual test with manual advance feature, Cycle test, 3-minute test)
- Programmable run times from one minute to 9 hours 59 minutes
- Poly-fuse self resetting circuit protection



SATELLITES

PARTIAL FEATURES LIST	SATELLITES		DECODER SATELLITES (2-Wire)	
	AuroraLT®	Aurora®	AuroraLT®	Aurora®
APPLICATIONS				
Golf	✓	✓	✓	✓
Sports Turf	✓	✓	✓	✓
TYPE OF CONTROLLER				
Wall Mounting	✓	✓	✓	✓
Plastic Pedestal	✓	✓	✓	✓
Heavy Duty Stainless Steel Pedestal/Wall Mount	✓	✓	✓	✓
NETWORK COMMUNICATION				
Peer-to-Peer Communication		✓		✓
Local Sensors	✓	✓	✓	✓
Sharing of Sensor Data		✓		✓
CENTRAL CONTROL UPGRADEABLE				
Upgradeable to eAurora (Web-Based)	✓	✓	✓	✓
Upgradeable to Aurora (PC-Based)	✓	✓	✓	✓
OTHER				
Accepts Decoder Modules	✓	✓		
Accepts Valve Modules			✓	✓

PRODUCT OVERVIEW | Satellite Controllers

AuroraLT



- The **AuroraLT**® Satellite Controller delivers the ultimate in power at an affordable price.
- AuroraLT is designed to operate as a stand-alone controller or as a satellite in a central controlled system.
- AuroraLT is easy to operate with flexible configuration and communication options.
- AuroraLT firmware can be upgraded in the field to a fully configured Aurora® version allowing the user full access to our patented Peer-to-Peer networking features.

Aurora



- The **Aurora**® Satellite Controller delivers the ultimate in power, ease and value.
- Aurora is designed to function as a stand-alone controller or as a satellite in a network with or without a central computer.
- Each Aurora Satellite Controller is like having a central computer in the field for unprecedented control and unparalleled value.
- Aurora is easy to operate with flexible configuration and communication options.
- Fits all golf and sports turf applications
- Suitable for hybrid applications where two-wire systems and traditional wired systems coincide.
- Expansion made easy with a modular output design.



Decoder Satellite Controller

- All the features and benefits of the AuroraLT Satellite in a decoder version.
- The AuroraLT® Satellite Controller delivers the ultimate in power at an affordable price.
- AuroraLT is designed to operate as a stand-alone controller or as a satellite in a central controlled system.

- AuroraLT is easy to operate with flexible configuration and communication options.
- AuroraLT firmware can be upgraded in the field to a fully configured Aurora® version allowing the user full access to our patented Peer-to-Peer networking features.

AuroraLT Decoder



- All the features and benefits of the Aurora Satellite in a decoder version.
- The Aurora® Satellite Controller delivers the ultimate in power, ease and value.
- Aurora is designed to function as a stand-alone controller or as a satellite in a network with or without a central computer.

- In fact, each Aurora Satellite Controller is like having a central computer in the field for unprecedented control and unparalleled value.
- Aurora is easy to operate with flexible configuration and communication options.
- Suitable for hybrid applications where two-wire systems and traditional wired systems coincide.
- Expansion made easy with a modular output design.

Aurora Decoder



- Field addressable
- Direct burial
- Different models to fit every application:
- One zone, two zone, three zone and four addresses available.

- Decoder programmer also available (not shown).

FIELD DECODERS



MODELS

AuroraLT

Aurora

AuroraLT Decoder

Aurora Decoder



Wall Mount Enclosure



Plastic Pedestal Enclosure

FEATURES & BENEFITS

Aurora[®] Satellite Controller

Stand-alone controller or network satellite for commercial sites

NETWORK

Patented true two-way communication (peer to peer) allows a Aurora Satellite Controller to operate as a stand-alone controller or as part of a satellite network with or without a central computer

Sensor inputs allow satellites to monitor, store and share data from multiple sensors across a network

Hardwire, telephone, ethernet and radio communications can be used on the same network

Cell phones and handheld radios can be used as remotes

Backward and forward compatible

Network can be monitored and controlled at any satellite through our patented Peer to Peer communications, through a central computer with our desktop software, through the internet with our eAurora service, or all of the above

Hardwire ready configuration allows for quick and inexpensive installation of our patented Peer to Peer communication between satellites

SATELLITE CONTROLLER

Multilingual user interface

Enable and disable commands with delay timer

User-selectable, 12-hour or 24-hour clock format

Semi-automatic, manual and delayed manual station control

Global, controller/satellite, program water budgeting from 0-999%

Open, Overload and short-circuit protection

User-selectable Water Budget or ET-adjusted control for each irrigation schedule/program

Master valves (2 N/C and 2 N/O) and local and remote pump capabilities and pump start

Accommodates up to two sensors and shares an additional 4 sensors across a network

Flow monitoring and reporting of over-flow or under-flow conditions

Generates alarms, flow and status reports which can be transmitted to a user defined-location and/or stored in the local alarm log

Pedestal units can be configured for 96 traditional stations, or 250 decoder addresses (6 valve modules max. within a pedestal)

Wallmount units can be configured for 48 traditional stations, or 250 decoder addresses (3 valve modules max. within a wall mount)

Manages 128 fully independent, customized schedules/programs

Each schedule/program has 8 start times and can accommodate up to 48 events; stations can be run in any sequence and you have the capability to run the same station multiple times within the same schedule/program, each with a different run time if needed

Programs can be linked to start when another program ends—from any satellite on the network

Each schedule/program has a completely independent watering calendar which can be All Months, Months, Weeks, Odd/Even or interval up to 99 days

Virtually unlimited flexibility for specific cycle scheduling/programming

Multiple repeats and pauses within a schedule/program

Suitable for hybrid applications where two-wire systems and traditional wired systems coincide

NETWORK COMMUNICATIONS OPTIONS

- Hardwire (Standard)
- Digital Spread Spectrum Radio (License Free) [900 MHz and 2.4 GHz]

Ethernet Modem

REMOTE COMMUNICATIONS OPTIONS

- Handheld Maintenance Radio [VHF]
- Landline Telephone
- Cellular Phone (CDMA and GSM)
- Ethernet Modem

NOTE:

Other options available — options vary by location; check with your local distributor

ENCLOSURE OPTIONS

Plastic Pedestal:

- Black Granite, Green Granite, Gray Granite, Tan

Wall Mount:

- Large (Indoor/Outdoor Mount), Gray Only

Heavy-Duty Stainless Steel:

- Top Opening or Front Opening

SENSOR OPTIONS

Accepts both Pulse (standard) and 4-20mA (optional equipment required) sensors

Pulse Sensors:

- ET Gauge
- Tipping Rain Bucket
- Rain Switch
- Flow Meter
- Frost /Temperature
- Any On/Off or Active/Non-Active

4-20mA Sensors:

- Soil Temperature
- Soil Moisture
- Flow
- Pressure

VALVE MODULE OPTIONS

A style = 16 station (small terminals)

B style = 8 station (large terminals)

C style = 16 station (large terminals, pedestals only)

D style = 125 address decoder

ELECTRICAL

Input Power:

- 110/117 VAC, 60 Hz or 220/240 VAC, 50 Hz
- 0.20 amps @ 115 VAC, 60 Hz (no load)
- 0.80 amps @ 115 VAC, 60 Hz (max. load)

Station Output Power

- 24 VAC (120 VA) total
- Station draw: max. 3 solenoids per station,
- 14 stations simultaneously (max. 3.2 amps)



Plastic Pedestal Color Options



Heavy-Duty Stainless Steel Pedestal (Top Opening Style)



Plastic Pedestal front view with 32 stations (2 C modules x 16 stations per module = 32)



Plastic Pedestal back view (showing the field wiring connections)

DIMENSIONS (H x W x D)

Metal Wall Mount

- 18" (46 cm) x 14" (36 cm) x 4 1/4" (36 cm)

Plastic Pedestal

- 45" (114 cm) x 16" (41 cm) x 11 5/8" (30 cm)

PARTIAL FEATURES LIST

COMMUNICATION FEATURES

Peer-to-Peer Communication

PROGRAMMING FEATURES

Number of Zones (Wall Mount)

Number of Zones (Pedestal)

Remote Master Valve / Pump Starts

Master Valve / Pump Starts

Number of Independent Programs Per Controller

Start Times per Program

Multiple Start Types per Program

Events per Program

Real Time Flow Sensing

SENSOR FEATURES

Local Sensors per Satellite

Remote Sensors per Satellite

Sharing of Sensor Data - from Interface Unit

Sharing of Sensor Data - from any Satellite

Number of Sensor Logs

	SATELLITES		DECODER SATELLITES (2-Wire)	
	AuroraLT	AURORA	AuroraLT	AURORA
Peer-to-Peer Communication		✓		✓
Number of Zones (Wall Mount)	8-48	8-48	up to 250	up to 250
Number of Zones (Pedestal)	8-96	8-96	up to 250	up to 250
Remote Master Valve / Pump Starts		✓		✓
Master Valve / Pump Starts	1 N/O	2 N/O, 2 N/C	1 N/O	2 N/O, 2 N/C
Number of Independent Programs Per Controller	32	128	32	128
Start Times per Program	8	8	8	8
Multiple Start Types per Program	✓	✓	✓	✓
Events per Program	48	48	48	48
Real Time Flow Sensing	✓	✓	✓	✓
Local Sensors per Satellite	2	2	2	2
Remote Sensors per Satellite		4		4
Sharing of Sensor Data - from Interface Unit	✓	✓	✓	✓
Sharing of Sensor Data - from any Satellite		✓		✓
Number of Sensor Logs	7	90	7	90



DECODER OPTIONS

ACDECI: 125-Zone Decoder Modulator Board

AD-111LP: Low Power Field Decoder, 1- address, 1-solenoid

AD-121LP: Low Power Field Decoder, 2- addresses, 1-solenoid

AD-111: Field Decoder, 1- address, 1-solenoid

AD-112: Field Decoder, 1- address, up to 2-solenoid per address

AD-122: Field Decoder, 2- addresses, up to 2-solenoids per address

AD-132: Field Decoder, 3- addresses, up to 2-solenoids per address

AD-142: Field Decoder, 4- addresses, up to 2-solenoids per address

ADPROG: Decoder Field Programmer

TWSPK: Decoder Surge Protection Kit



HOW TO ORDER

CONTROLLER PART NUMBER GRID:

AUR **S** **PE** **B** **I** **A** **P** **016** **H** **0**

Product Line:
Commercial Product Firmware Line:
AUR = Aurora Full Version Firmware
ALT = AuroraLT Lite Version Firmware

Product Brand:
Golf Product Firmware Line:
S = Signature Control Systems

Controller Enclosure:
PE = Plastic Pedestal
LW = Large Wall Mount
SW = Small Wall Mount
HT = Heavy Duty Stainless Steel Top Entry
HF = Heavy Duty Stainless Steel Front Entry

Enclosure Color:
B = Black Plastic
G = Green Plastic
Y = Gray Plastic or Wall Mount
T = Tan Plastic

Transformer Power:
1 = 110v
2 = 220v

Valve Module Type:
A = 16 Station Valve Module (Small Terminals)
B = 8 Station Valve Module (Large Terminals)
C = 16 Station Valve Module (Large Terminals - Pedestals Only)
D = 125 Address Decoder Module

Valve Module Surge Protection:
P = Premium Surge Protection
S = Standard Surge Protection

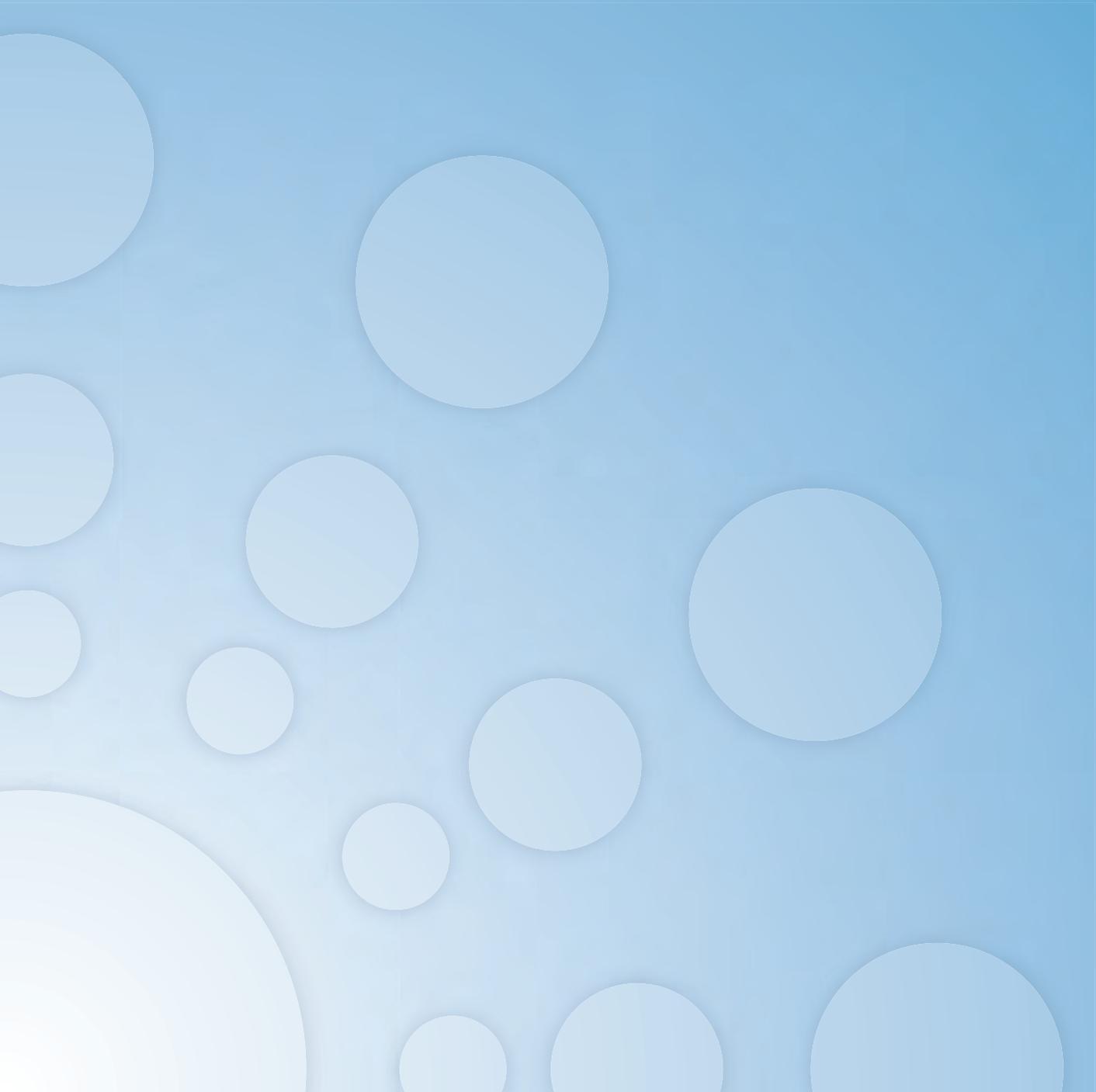
Valve Module Station Count:
008 = 8-Stations
016 = 16-Stations
024 = 24-Stations
032 = 32 Stations
040 = 40 Stations
048 = 48 Stations
056 = 56 Stations
064 = 64 Stations
072 = 72 Stations
080 = 80 Stations
088 = 88 Stations
096 = 96-Stations
Decoder Option:
125 = 1-Module
225 = Dual 125 Platform
250 = 2-Modules

Network Communications:
H = Hardwire (standard)
U = UHF Network Modem
S = Spread Spectrum USA
I = Spread Spectrum International
E = Ethernet Network Modem

Remote Communications:
0 = None
1 = VHF Remote Modem
2 = Telephone Land Line Modem (firmware 5.3 or lower)
3 = GSM Cellular Phone Modem for SMS Applications (firmware 5.3 or lower)
4 = GSM Cellular Phone Modem for E-Web Applications
5 = CDMA Cellular Phone Modem USA for E-Web Applications
6 = Ethernet Modem

Example: Aurora Signature series controller in a black plastic pedestal with 110 volt transformer, using 16 station small terminal valve modules with premium surge protection, 16 stations with hardwire communications and no remote access. The final part number would be:
AURDPEBIAP016H0

NOTE: Not all combinations are available. Check with your local distributor for details.



CENTRAL CONTROLS

	EZ PRO™ Live	eAurora™ Lite	eAurora™ Pro	Aurora® Professional
APPLICATIONS				
Golf	✓	✓	✓	✓
Sports Turf	✓	✓	✓	✓
STANDARD FEATURES				
Remote Access from any Internet Computer	✓	✓	✓	
24/7 Availability	✓	✓	✓	
Automatic Upgrades	✓	✓	✓	
Seamless Upgrades	✓	✓	✓	
Automatic Backups	✓	✓	✓	
ET Based Scheduling	Optional	Optional	Optional	With W/S
Multi-level Access with Passwords	✓	✓	✓	✓
Real-Time 2-Way Communication	✓	✓	✓	✓
Works with all EZ PRO® Controllers	✓			
Works with all AuroraLT Satellites		✓	✓	✓
Works with all Aurora Satellites		✓	✓	✓
Works with Radio Satellites/Networks		✓	✓	✓
Works with Hardwire Satellites/Networks		✓	✓	✓
Works with Decoder Satellites/Networks		✓	✓	✓
SOFTWARE FEATURES				
Manual Operation	✓	✓	✓	✓
Rain Shutdown	✓	✓	✓	✓
Programming	✓	✓	✓	✓
Budget Adjust	✓	✓	✓	✓
Report Generation		✓	✓	✓
Controller Setup		✓	✓	
Graphical Map		✓	✓	✓
Group Programming			✓	✓
Flow Management			✓	✓
Projected Flow (Dry Run)			✓	✓

PRODUCT OVERVIEW

Online Central Control (Web Based)

The eSignature Series of Online Central Control or Online Management Systems are internet-based central control system for irrigation control and water management. Communicating with remote irrigation field controllers with wireless connectivity, and allows you management of sites from anywhere in the world via the internet.

Along with all the advantages of internet-based access to remote irrigation field controllers, the eSignature Series of internet based central control provides optional weather-based irrigation scheduling. Location-specific weather data (ET) is delivered daily to irrigation controllers which allow the realization of quantifiable water savings and reduced operational costs.

EZ PRO™ LIVE



- **EZ PRO™ Live** works with your existing or new Aurora EZ controllers
- Plug-in module makes your controller accessible from any internet capable computer anywhere in the world
- Menus are user friendly and intuitive using graphical user interface
- Uses real-time weather data and transmits it to each controller (Optional ET Smart Watering Service)

eAURORA™ LITE



- **eAurora™ Lite** is accessible from any internet capable computer anywhere in the world
- Requires no expensive desktop software purchases or support plans
- Eliminates need for dedicated irrigation computer and extended service plans
- Abolishes time consuming software upgrades and related programming

eAURORA™ PRO



- **eAurora™ Pro** flow manages from anywhere and downloads to your satellite network
- Remotely monitor sites—across the city, state, or world—from one location or an infinite number of locations
- All programs and site data are stored in your personal and secure eAurora account
- Multi-user environment with multi-level passwords and access controls

Central Control (PC Based)

Aurora® Professional software is the classical Personal Computer (PC) based system for irrigation control and water management. It has the capability of Manual Programming, Group Programming

and Flow Managed Programming. It works with local Weather Stations and Environmental Sensors for programming and scheduling.

- Works with your existing Aurora network
- Works with hardwire, local radio, or any hybrid version
- Works with traditional valves, decoders, or any combination of the two
- Flow Management: Limits flow within the irrigation system to eliminate the possibility of excessive demand placed on the pumps and piping; Capable of determining the most efficient distribution of water flow within specific limitations set by the operator.

AURORA® PROFESSIONAL



MODELS

EZPULRETP1

USA EZ Pro Live Retro Plan 1
(includes data, web access; renewal done via SCS website only)

EZPULRETP2

USA EZ Pro Live Retro Plan 2
(includes activation, sim, data, web access, et & modem)

HOW IT WORKS

EZ PRO™ Live is an internet-based central control system used with Aurora EZ controllers. It communicates with Aurora EZ irrigation field controllers using cellular connectivity, and allows management of controller from anywhere in the world via the internet.

Along with all the advantages of internet-based access to remote irrigation field controllers, EZ PRO Live provides an weather-based irrigation scheduling option. Location-specific weather data (ET) is delivered daily to irrigation controllers which allows the realization of quantifiable water savings and reduced operational costs.

The exciting features of EZ PRO Live can be added to all Aurora EZ controllers without any changes to the controller other than the addition of a single communications modem board. (May require a cellular data plan from your local carrier.)

FEATURES & BENEFITS

REMOTE ACCESS

EZ PRO Live is accessible from any internet capable computer anywhere in the world

Remotely monitor sites from one location or an infinite number of locations

All programs are stored in the controller once downloaded, and are available 24/7 on our secure server

COST EFFECTIVE

EZ PRO Live requires no expensive desktop software purchases or support plans

Eliminates need for dedicated irrigation computer and extended service plans

Abolishes time consuming software upgrades and related programming

EASY TO USE

EZ PRO Live requires no extensive backups; we handle all upgrades, support and maintenance

Upgrades are uploaded seamlessly; when you log on they are ready

Menus are user friendly and intuitive using graphical user interface

WEATHER-BASED IRRIGATION SCHEDULEING (ET) [OPTIONAL SERVICE]

EZ PRO Live uses real-time weather data (ET) and transmits it to each controller

Smart controller functions save water, time, and expense

Eliminates requirement to purchase a weather station or other weather services

The addition of an EZ PRO Live communications board makes your existing or new Aurora EZ controller live on the web

EZ PRO Live accesses any new or existing Aurora EZ Controller with the addition of a single communications board

NOTE:

May require a cellular data plan from your local carrier.

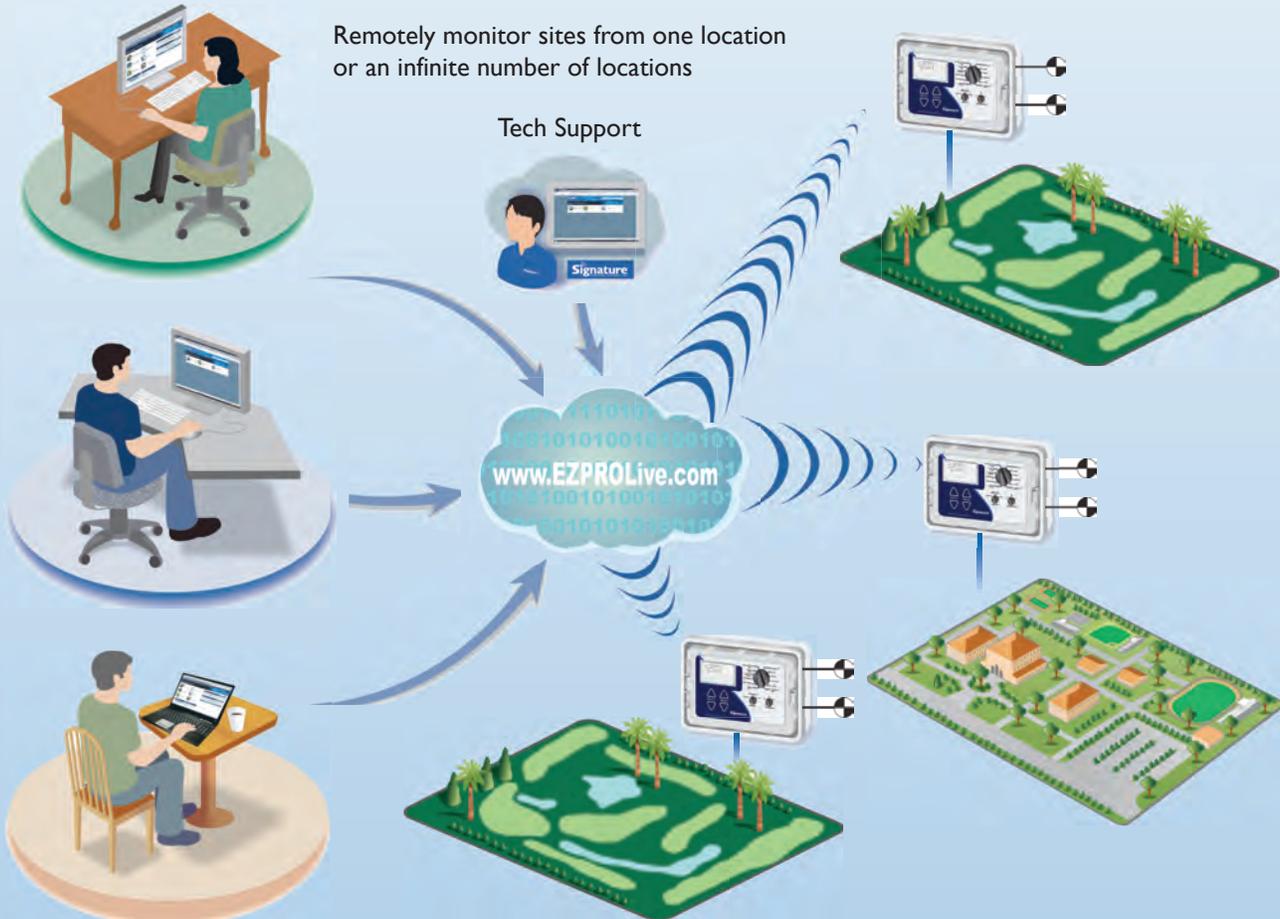


USAGE EXAMPLE: EZ PRO Live — Single User / Single Site



EZ PRO Live is accessible from any internet capable computer anywhere in the world

USAGE EXAMPLE: EZ PRO Live — Multiple Users / Multiple Sites



MODELS

HOW IT WORKS

eAurora™ LITE
eAurora™ PRO

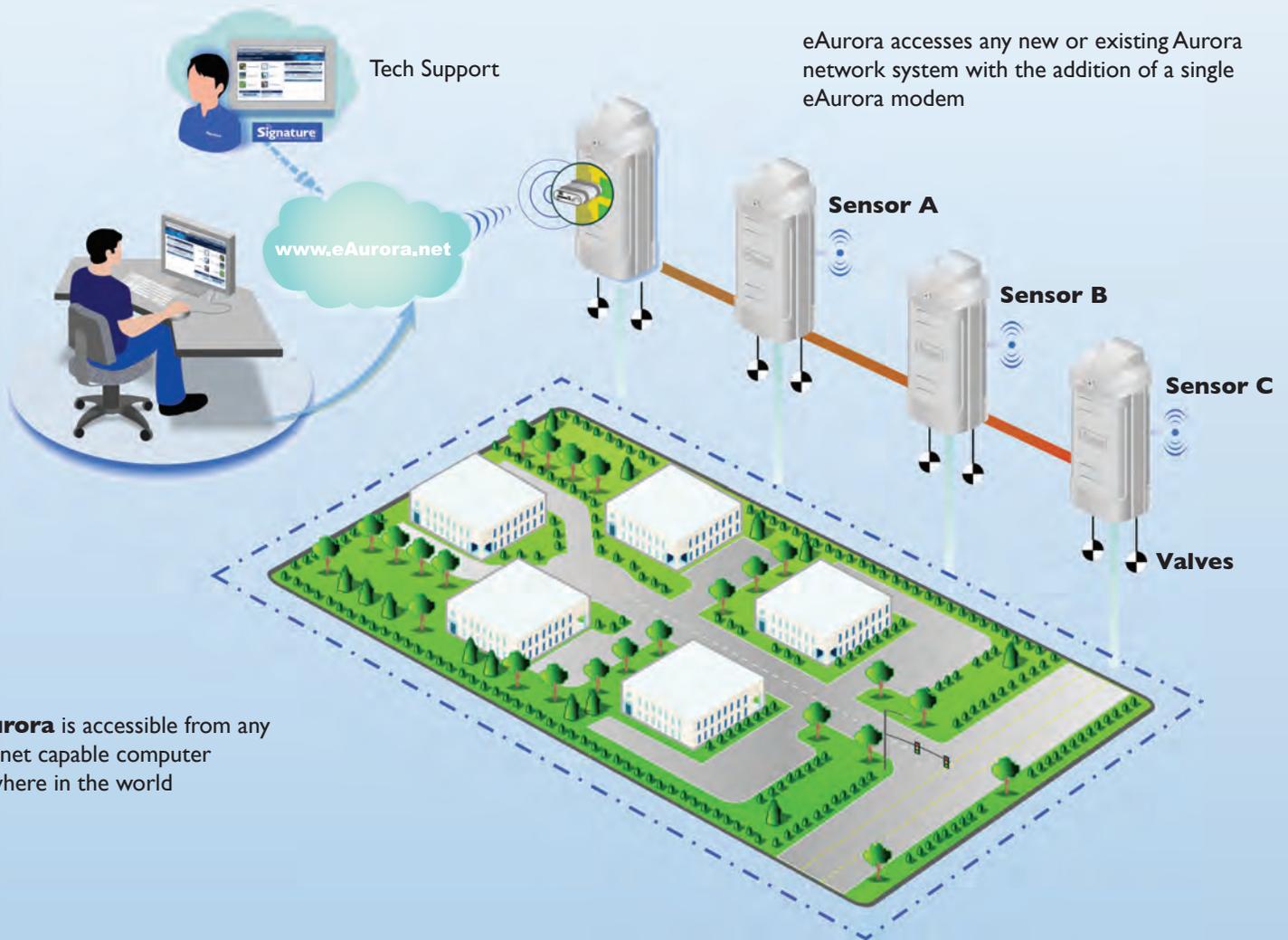
eAurora™ is an internet-based central control system for use with Aurora and AuroraLT Series controllers. It communicates with remote irrigation field controllers using wireless connectivity, and allows management of controller from anywhere in the world via the internet.

Along with all the advantages of internet-based access to remote irrigation field controllers, eAurora provides an weather-based

irrigation scheduling option. Location-specific weather data (ET) is delivered daily to irrigation controllers which allow the realization of quantifiable water savings and reduced operational costs.

The exciting features of eAurora can be added to all Aurora and AuroraLT Series controllers and networks without any changes to the controller other than the addition of a single communications modem board. (May require a cellular data plan from your local carrier.)

USAGE EXAMPLE: eAurora — Single User / Multiple Controller Site



eAurora is accessible from any internet capable computer anywhere in the world

FEATURES & BENEFITS

REMOTE ACCESS:

eAurora is accessible from any internet capable computer anywhere in the world

All programs and site data are stored on our secure server and available 24/7

Remotely monitor sites - across the city, state, or world - from one location or an infinite number of locations

All programs and site data are stored in your personal and secure eAurora account

Multi-user environment with multi-level passwords and access controls

COST EFFECTIVE:

eAurora requires no expensive desktop software purchases or support

Eliminates need for dedicated irrigation computer and extended service plans

Abolishes time consuming software upgrades and related programming

Billing is available in annual or monthly installments

For seasonal users, access fees are waived during "off" months

EASY TO USE:

eAurora requires no extensive backups; we handle all upgrades, support and maintenance

Upgrades are uploaded seamlessly; when you log on they are ready

Menus are user friendly and intuitive using graphical user interface

On-screen help menus provide user with detailed instructions for simple set-up and fast launch

Online trouble shooting to read alarms, events, and flow meters

WEATHER-BASED IRRIGATION SCHEDULING (ET):

eAurora uses real-time weather data (ET) and transmits it to each controller in your network

Smart controller functions save water, time, and expense

Eliminates requirement to purchase a weather station or other weather services

Removes any vandalism and maintenance issues with weather stations and sensors

Irrigate using ET from installation of first controller

HIGH PERFORMANCE:

eAurora accesses any new or existing Aurora network system with the addition of a single eAurora modem

Enjoy the same power and performance of your Aurora networks with no hardware modifications

Only one access point is required in each Aurora network

Hardwire, radio, fiber optic or Ethernet communications can be combined on the same network

Flexible programming operates lighting, fountains, security gates and locks, etc

The addition of an eAurora web modem makes your existing or new Aurora network on the web

eAurora accesses any new or existing Aurora controller network with the addition of a single GPRS modem

FLOW MANAGEMENT (PRO VERSION ONLY):

All the features of Lite PLUS the ability to flow manage your site

Optimizes water usage over multiple controller site

Checks to see that watering fits within water window

Graphical representation of flow for ease of verification

Irrigation is easily scheduled to meet complex watering parameters

USAGE EXAMPLE: eAurora — Multiple Users / Multiple Controller Sites with Multiple Satellites



eAurora accesses any new or existing Aurora network system with the addition of a single **eAurora** modem



Remotely monitor sites - across the city, state, or world - from one location or an infinite number of locations



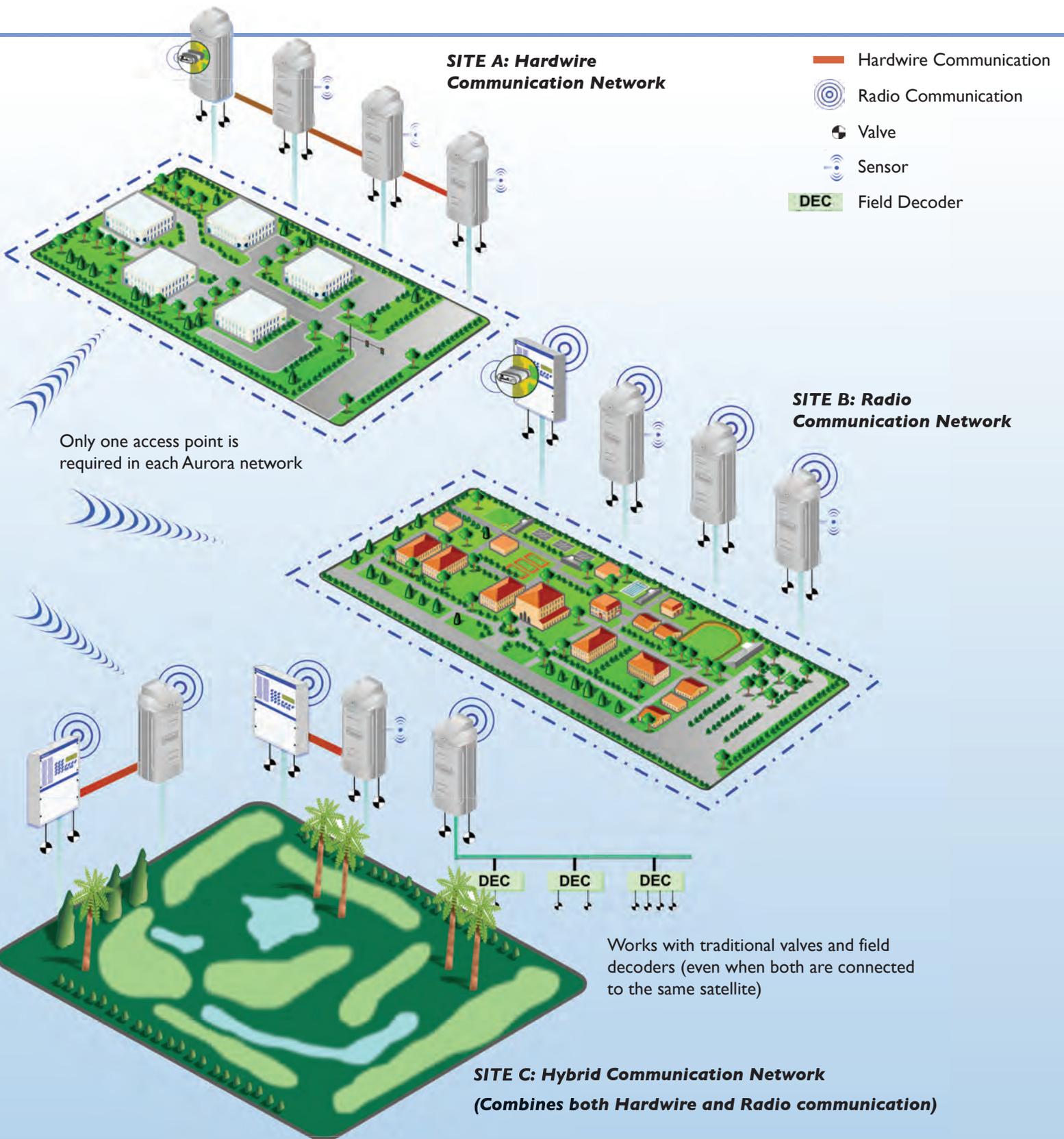
Multi-user environment with multi-level passwords and access controls

Tech Support



www.eAurora.net

eAurora requires no extensive backups; we handle all upgrades, support and maintenance



MODELS

Aurora[®] Professional

HOW IT WORKS

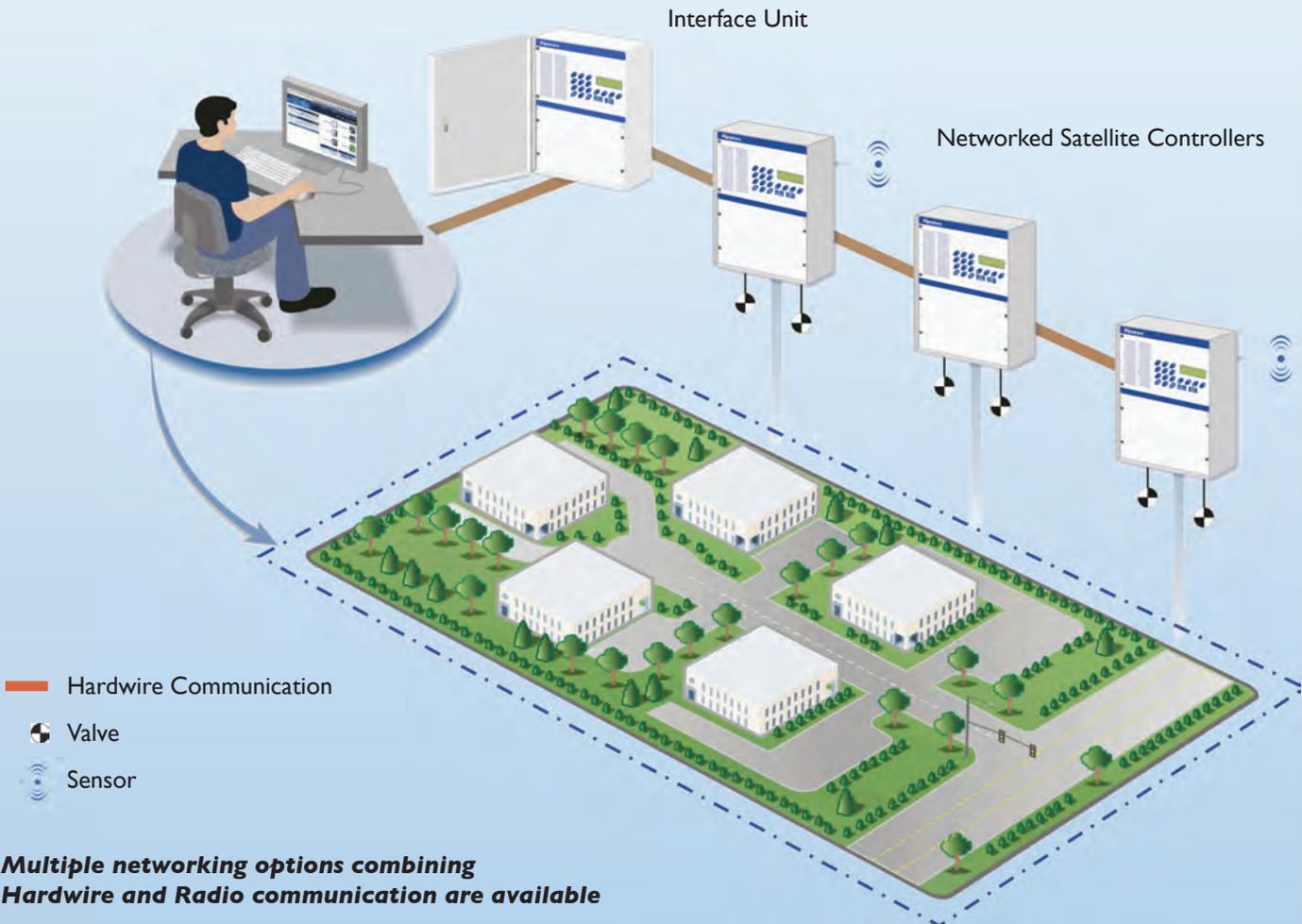
Aurora[®] Professional is the traditional-type of central control system for use with Aurora and AuroraLT Series controllers. It communicates with remote irrigation field controllers using hardwire, local radio (900MHz or 2.4 GHz Digital Spread Spectrum), Ethernet, and allows management of satellite controllers from one irrigation computer with irrigation software resident on the computer.

The features of Aurora Professional can be added to all Aurora and AuroraLT Series controllers and networks without any changes to

the controller or network. All that is required is (a) an Interface Unit located in close proximity to the irrigation computer to facilitate the field connection, or (b) an Ethernet connection and Ethernet modem in one of the Satellite controllers in the Aurora network.

Aurora Professional provides weather-based irrigation scheduling option using a local weather station. ET data is delivered daily to irrigation controllers which allow the realization of quantifiable water savings and reduced operational costs.

USAGE EXAMPLE: Aurora Professional — Single User / Multiple Controller Site



**Multiple networking options combining
Hardwire and Radio communication are available**

FEATURES & BENEFITS

NETWORK COMMUNICATION – UNLIMITED OPTIONS

Communication options for Aurora Networks include hardwire, local radio (900 MHz and 2.4 GHz digital spread spectrum radio), cellular phone, Ethernet, fiber-optics, Wi-Fi and others. (Not all options are available in all areas. Contact your local dealer for options available for your specific area.)

CENTRAL COMMUNICATION – STANDARD AND REMOTE OPTIONS

Communications options between the central irrigation computer and the Aurora satellite controllers include all those listed above PLUS the ability to access the network from anywhere in the world where you can get an internet connection from your computer.

NETWORK MONITORING – ROBUST INTELLIGENCE

The Aurora network monitors itself continuously and can make use of six sensor inputs per satellite controller (2 direct; 4 indirect). The satellite controllers can monitor and adjust to flow, rain (on/off), rain fall adjustments, wind, moisture, temperature or virtually any other sensor to adjust and take action in real time... without the need for the central computer to even be on.

SOFTWARE FEATURES (Partial List)

- Graphical User Interface
- Weather station monitoring for automated ET-adjusted irrigation schedule
- Automated ET (with optional equipment)
- Flow Management
- Event Calendar Scheduling
- Manual station control
- Dry Run and monitor irrigation water windows
- Operates lighting, fountains, security gates, etc.
- English and metric units
- Multilingual instructions

REMOTE OPTION

Untether your control! Move to a laptop and an Ethernet modem in one of your Aurora network satellite controllers and use your computer anywhere in the world where you can get to the Internet. STANDARD!

CONTROL FEATURES

Irrigation cycles are easily scheduled to meet varying and complex watering requirements. Cycles can be scheduled with some of the following:

- Standard Start Times
- Stop Times
- Link Start Times
- Water Days
- Intervals
- Program Specific Water Budget
- Controller Specific Water Budget
- Sequential or Parallel Start Event Operation
- Automatic ET Control
- Sensor Starts or Stops or Pauses

OTHER FEATURES

Self-monitoring feature finds open/short circuits, activates alarms/pagers, and shuts down automatically if necessary.

Hardwire and radio communications can be used on the same network.

Independent programming allows control of each station in any sequence, with multiple repeats and pauses.

True two-way communication between central controls and satellites.

REMOTE TECHNICAL SUPPORT

High-speed technical support from the factory via an internet connection.



ROTORS

APPLICATIONS	D05	D15	D25	D35	D45	D50/D55	D70/D75
SPACING 18'-32' (5,5 m-9,8 m)	✓						
SPACING 30'-51' (9,2 m-15,6 m)		✓					
SPACING 44'-60' (13,4 m-18,3 m)			✓				
SPACING 41'-63' (12,5 m-19,2 m)				✓			
SPACING 53'-74' (16,2 m-22,6 m)					✓	✓	
SPACING 72'-86' (21,9 m-26,2 m)							✓
HIGH VANDALISM AREAS	✓	✓	✓	✓	✓	✓	✓
LOW PRESSURE SYSTEMS	✓	✓					
RISER MOUNTED	✓	✓					
GROUND COVER/SHRUBS	✓	✓					
RECLAIMED WATER	✓	✓	✓	✓	✓	✓	✓
SLOPES	✓	✓	✓	✓	✓	✓	✓
HIGH ROTATION SPEED			✓		✓		

PRODUCT OVERVIEW



D05

- The D05 series rotors are constructed of high impact plastic and all internal metal parts are made of stainless steel.
- $\frac{3}{4}$ " (2 cm) inlet
- No tools are required to adjust the arc from 40° – 360° by using the easy to use Click-Set disc.
- This series comes with 4 interchangeable nozzles with a discharge range between 0.5 – 2.5 gpm (0,11 – 0,57 m³/hr).
- All models come with a rubber protective cap and an optional vandal resistant retaining screw.
- The built in slip clutch protects the gears and motor from damage when adjusting for a part circle. If the rotor is manually moved out of position it will automatically reset to the defined pattern.
- NIR² (Nozzle Insertion / Radius Reduction) eliminates the need to remove the cap while fine tuning the radius and inserting the nozzle.
- D05 comes in many various styles: shrub head version, heavy duty stainless version, 12" (30,5 cm) high pop version, anti-drain valve (ADV) version and the standard version.



D15

- The D15 series rotors are constructed of high impact plastic and all internal metal parts are made of stainless steel.
- $\frac{3}{4}$ " (2 cm) inlet
- No tools are required to adjust the arc from 40° – 360° by using the easy to use Click-Set disc.
- This series comes with 8 interchangeable nozzles with a discharge range between 1.0 – 9.5 gpm (0,23 – 2,16 m³/hr). There is also a low angle nozzle tree available.
- All models come with a rubber protective cap and an optional vandal resistant retaining screw.
- The built in slip clutch protects the gears and motor from damage when adjusting for a part circle. If the rotor is manually moved out of position it will automatically reset to the defined pattern.
- NIR² (Nozzle Insertion / Radius Reduction) eliminates the need to remove the cap while fine tuning the radius and inserting the nozzle.
- D15 comes in many various styles: shrub head version, heavy duty stainless version, 12" (30,5 cm) high pop version, anti-drain valve (ADV) version and the standard version.



D25

- The D25 Pro Series 1" (25,4 mm) inlet series rotors are constructed of High impact plastic and all internal metal parts are made of stainless steel.
- No tools are required to adjust the arc from 40° – 360° by using the easy to use Click-Set disc.
- This series comes with 4 interchangeable nozzles with a discharge range between 2.8 – 13.2 gpm (0,64 – 3,00 m³/hr).
- All models come with a rubber protective cap and an optional vandal resistant retaining screw.
- The built in slip clutch protects the gears and motor from damage when adjusting for a part circle. If the rotor is manually moved out of position it will automatically reset to the defined pattern.
- NIR² (Nozzle Insertion / Radius Reduction) eliminates the need to remove the cap while fine tuning the radius and inserting the nozzle.
- D25 comes in various styles: heavy duty stainless version with anti-drain valve (ADV), High speed rotation and the standard version with ADV.



- The D35 Series 1" (25,4 mm) inlet series rotors are constructed of High impact plastic and all internal metal parts are made of stainless steel.
- The arc will adjust from 40° – 360° by using the easy to use Click-Set disc.
- This series comes with 6 interchangeable nozzles with a discharge range between 5.6 – 19.6 gpm (1,27 – 4,45 m³/hr).
- All models come with a rubber protective cap.

- The built in slip clutch protects the gears and motor from damage when adjusting for a part circle. If the rotor is manually moved out of position it will automatically reset to the defined pattern.
- NIR² (Nozzle Insertion / Radius Reduction) eliminates the need to remove the cap while fine tuning the radius and inserting the nozzle.
- D35 comes in two styles: heavy duty stainless version with anti-drain valve (ADV) and the standard version with ADV.



D35



- The D45 Series 1" (25,4 mm) inlet series rotors are constructed of High impact plastic and all internal metal parts are made of stainless steel.
- The arc will adjust from 40° – 360° by using the easy to use Click-Set disc.
- This series comes with 6 interchangeable nozzles with a discharge range between 9.4 – 27.5 gpm (2,13 – 6,24 m³/hr).
- All models come with a rubber protective cap.

- The built in slip clutch protects the gears and motor from damage when adjusting for a part circle. If the rotor is manually moved out of position it will automatically reset to the defined pattern.
- NIR² (Nozzle Insertion / Radius Reduction) eliminates the need to remove the cap while fine tuning the radius and inserting the nozzle.
- D45 comes in two styles: stainless version with anti-drain valve (ADV) and the high speed stainless version with ADV.



D45



- A full 4-inch pop-up clears tall turfgrass for even coverage
- Stainless-steel riser resists damage and vandalism
- Special design eliminates blow-by and reduces pressure loss to improve system performance
- Dual-direction flushing protects internals from debris and ensures positive pop-up/down

- Radius can be adjusted up to 25 percent for best coverage
- Quick lock design allows internals to be serviced from the rotor's top



D50/D55



- A full 4-inch pop-up clears tall turfgrass for even coverage
- Stainless-steel riser resists damage and vandalism
- Special design eliminates blow-by and reduces pressure loss to improve system performance
- Dual-direction flushing protects internals from debris and ensures positive pop-up/down

- Radius can be adjusted up to 25 percent for best coverage
- Quick lock design allows internals to be serviced from the rotor's top



D70/D75



MODELS

D05A

Standard

D05B

Shrub head

D05C

Stainless steel sleeve, heavy-duty spring, anti-drain valve (ADV) and locking screw

D05D

12" (30,5 cm) High-Pop, heavy-duty spring and anti-drain valve (ADV)

Accessories

D1505

Lavender Cover

D1500

Wrench

D1503

Anti-drain valve (not shown)



SPECIFICATIONS

OPERATING RANGE:

20-65 psi (1,4 – 4,5 bar) (5500, 5501)

25-65 psi (1,7 – 4,5 bar) (5505, 5512)

MAXIMUM PRESSURE:

75 psi (5,2 bar)

DISCHARGE:

0.5 to 2.5 gpm (0,11 – 0,57 m³/hr)

SPRAY TRAJECTORY:

13°

POP-UP HEIGHT:

4" (10 cm) (D05A, D05C)

12" (30,5 cm) (D05D)

BODY HEIGHT:

7½" (19 cm) (D05B)

7¾" (18,7 cm) (D05A, D05C)

16¾" (43 cm) (D05D)

EXPOSED CAP DIAMETER:

1⅞" (4,7 cm)

CAP DIAMETER:

2⅞" (7,3 cm)

TYPE OF CAP:

Rubber with locking screw

INLET SIZE:

¾" (19 mm) female (NPT and BSP)

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 (D05D)

20

Radius reduction adjustment hole



Pull-up slot

FEATURES

- Bayonet protective cap
- NIR² feature (Nozzle Insertion/Radius Reduction) on all models eliminates the need to remove the cap for nozzle adjustments
- Four interchangeable Acu-Cover nozzles ranging from 0.5 to 2.5 gpm (0.11 – 0.57 m³/hr)
- D05D pops up a full 12" (30.5 cm). Ideal for shrubs and ground cover areas, at the base of hillsides where risers are not appropriate and where liability is a concern
- Better pattern coverage than turning down a mid-range gear drive
- Water lubricated gear motor
- Click-Set[®] collars are quick and easy to adjust
- Continuous 360° rotation or part-circle adjustable 40° to 310°
- 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 (Model D05B has no clamp)



D05 SERIES
 Nozzle color ○
 13° trajectory

Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹	
PSI	FT	FT	GPM	IN/HR■	IN/HR▲	BAR		kPa	m	m	L/min	m ³ /hr	mm/hr■	mm/hr▲
20	18	14	0.5	0.30	0.37	51	1.4	138	5.5	4.1	1.9	0.11	7.5	9.4
35	20	15	0.7	0.34	0.42		2.5	242	6.1	4.6	2.6	0.16	8.6	10.7
50	21	16	0.8	0.35	0.44		3.5	345	6.4	4.8	3.0	0.18	8.9	11.1
20	20	15	0.8	0.39	0.48	52	1.4	138	6.1	4.6	3.0	0.18	9.8	12.2
35	24	18	1.2	0.40	0.50		2.5	242	7.3	5.5	4.5	0.27	10.2	12.7
50	25	19	1.3	0.40	0.50		3.5	345	7.6	5.7	4.9	0.30	10.2	12.7
20	22	17	1.1	0.44	0.55	53	1.4	138	6.7	5.0	4.2	0.25	11.1	13.9
35	27	20	1.6	0.42	0.53		2.5	242	8.2	6.2	6.1	0.36	10.7	13.4
50	28	21	1.8	0.44	0.55		3.5	345	8.5	6.4	6.8	0.41	11.2	14.0
20	23	17	1.6	0.58	0.73	54	1.4	138	7.0	5.3	6.1	0.36	14.8	18.5
35	31	23	2.2	0.44	0.55		2.5	242	9.5	7.1	8.3	0.50	11.2	14.0
50	32	24	2.5	0.47	0.59		3.5	345	9.8	7.3	9.5	0.57	11.9	14.9

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.



MODELS

D15A

Standard

D15B

Shrub head

D15C

Heavy-duty spring and anti-drain valve (ADV)

D15D

Stainless steel sleeve, heavy-duty spring, anti-drain valve (ADV) and locking screw

D15AL

D15A Pro with preinstalled lavender cap for reclaimed water usage

Note: Any orders for the D15AL may require a 4 week lead time.

D15E

12" (30,5 cm) High-Pop, heavy-duty spring and anti-drain valve (ADV)



Accessories

D1505

Lavender Cover

D1500

Wrench

D1503

Anti-drain valve (not shown)

Radius reduction
adjustment hole



Pull-up slot

SPECIFICATIONS

OPERATING RANGE:

20-65 psi (1,4 – 4,5 bar) (D15A, D15B, D15C)

25-65 psi (1,7 – 4,5 bar) (D15D, D15E)

MAXIMUM PRESSURE:

75 psi (5,2 bar)

DISCHARGE:

1.0 to 9.5 gpm (0,23 – 2,16 m³/hr)

SPRAY TRAJECTORY:

25°

(13° optional)

POP-UP HEIGHT:

4" (10 cm) (D15A, D15D)

12" (30,5 cm) (D15E)

BODY HEIGHT:

7½" (19 cm) (D15B)

7¾" (18,7 cm) (D15A, D15D)

16⅞" (43 cm) (D15E)

EXPOSED CAP DIAMETER:

1⅞" (4,7 cm)

CAP DIAMETER:

2⅞" (7,3 cm)

TYPE OF CAP:

Rubber with locking screw

INLET SIZE:

¾" (19 mm) female (NPT and BSP)

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 (D15E)

20

FEATURES

- Bayonet protective cap
- NIR² feature (Nozzle Insertion/Radius Reduction) on all models eliminates the need to remove the cap for nozzle adjustments
- Eight interchangeable Acu-Cover nozzles ranging from 1.0 to 9.5 gpm (0,23 – 2,16 m³/hr).
- Seven optional low-angle nozzles (13°) for windy areas or for throwing under trees
- Proven reliability of the water driven gear motor
- D15E Pro pops up a full 12" (30,5 cm). Ideal for shrubs and ground cover areas, at the base of hillsides where risers are not appropriate and where liability is a concern
- Click-Set[®] collars are quick and easy to adjust
- Continuous 360° rotation or part-circle adjustable 40° to 310°
- 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 (Model D15B has no clamp)



D15 SERIES

Nozzle color ●
25° trajectory



Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹	
PSI	FT	FT	GPM	IN/HR■	IN/HR▲	BAR		kPa	m	m	L/min	m ³ /hr	mm/hr■	mm/hr▲
20	30	23	1.0	0.21	0.27	4	1.4	138	9.2	6.9	3.8	0.23	5.4	6.8
35	31	23	1.4	0.28	0.35		2.5	242	9.5	7.1	5.3	0.32	7.1	8.9
50	34	26	1.7	0.28	0.35		3.5	345	10.4	7.8	6.4	0.39	7.2	9.0
20	33	25	1.2	0.21	0.26	5	1.4	138	10.1	7.5	4.5	0.27	5.4	6.7
35	37	28	1.6	0.23	0.28		2.5	242	11.3	8.5	6.1	0.36	5.7	7.1
50	38	29	1.9	0.25	0.32		3.5	345	11.6	8.7	7.2	0.43	6.4	8.0
20	32	24	1.4	0.26	0.33	6	1.4	138	9.8	7.3	5.3	0.32	6.7	8.3
35	38	29	1.9	0.25	0.32		2.5	242	11.6	8.7	7.2	0.43	6.4	8.0
50	40	30	2.3	0.28	0.35		3.5	345	12.2	9.2	8.7	0.52	7.0	8.8
20	38	29	2.2	0.29	0.37	7	1.4	138	11.6	8.7	8.3	0.50	7.5	9.3
35	40	30	2.7	0.33	0.41		2.5	242	12.2	9.2	10.2	0.61	8.3	10.3
50	41	31	3.1	0.36	0.44		3.5	345	12.5	9.4	11.7	0.70	9.0	11.3
35	38	29	3.1	0.41	0.52	8	2.5	242	11.6	8.7	11.7	0.70	10.5	13.1
50	42	32	4.0	0.44	0.54		3.5	345	12.8	9.6	15.1	0.91	11.1	13.8
65	43	32	4.6	0.48	0.60		4.6	449	13.1	9.8	17.4	1.04	12.2	15.2
35	42	32	4.2	0.46	0.57	9	2.5	242	12.8	9.6	15.9	0.95	11.6	14.5
50	47	35	5.4	0.47	0.59		3.5	345	14.3	10.8	20.4	1.23	12.0	14.9
65	48	36	6.3	0.53	0.66		4.6	449	14.6	11.0	23.8	1.43	13.4	16.7
35	42	32	5.4	0.59	0.74	10	2.5	242	12.8	9.6	20.4	1.23	15.0	18.7
50	48	36	6.8	0.57	0.71		3.5	345	14.6	11.0	25.7	1.54	14.4	18.0
65	49	37	8.0	0.64	0.80		4.6	449	14.9	11.2	30.3	1.82	16.3	20.3
35	42	32	6.4	0.70	0.87	11	2.5	242	12.8	9.6	24.2	1.45	17.7	22.1
50	48	36	8.1	0.68	0.84		3.5	345	14.6	11.0	30.7	1.84	17.2	21.4
65	51	38	9.5	0.70	0.88		4.6	449	15.6	11.7	36.0	2.16	17.9	22.3

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.

D1502 LOW ANGLE

Nozzle color ●
13° trajectory
(optional for D15A series only)



Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹	
PSI	FT	FT	GPM	IN/HR■	IN/HR▲	BAR		kPa	m	m	L/min	m ³ /hr	mm/hr■	mm/hr▲
20	26	20	0.9	0.26	0.32	4	1.4	138	7.9	5.9	3.4	0.20	6.5	8.1
35	33	25	1.3	0.23	0.29		2.5	242	10.1	7.5	4.9	0.30	5.8	7.3
50	34	26	1.5	0.25	0.31		3.5	345	10.4	7.8	5.7	0.34	6.3	7.9
20	26	20	1.1	0.31	0.39	5	1.4	138	7.9	5.9	4.2	0.25	8.0	9.9
35	33	25	1.4	0.25	0.31		2.5	242	10.1	7.5	5.3	0.32	6.3	7.8
50	35	26	1.7	0.27	0.33		3.5	345	10.7	8.0	6.4	0.39	6.8	8.5
20	26	20	1.4	0.40	0.50	6	1.4	138	7.9	5.9	5.3	0.32	10.1	12.6
35	33	25	1.9	0.34	0.42		2.5	242	10.1	7.5	7.2	0.43	8.5	10.6
50	36	27	2.3	0.34	0.43		3.5	345	11.0	8.2	8.7	0.52	8.7	10.8
20	31	23	2.5	0.50	0.62	7	1.4	138	9.5	7.1	9.5	0.57	12.7	15.9
35	35	26	3.1	0.49	0.61		2.5	242	10.7	8.0	11.7	0.70	12.4	15.4
50	37	28	3.5	0.49	0.61		3.5	345	11.3	8.5	13.2	0.79	12.5	15.6
35	32	24	3.2	0.60	0.75	8	2.5	242	9.8	7.3	12.1	0.73	15.3	19.1
50	38	29	4.0	0.53	0.67		3.5	345	11.6	8.7	15.1	0.91	13.6	16.9
65	39	29	4.7	0.60	0.74		4.6	449	11.9	8.9	17.8	1.07	15.1	18.9
35	34	26	3.9	0.65	0.81	9	2.5	242	10.4	7.8	14.8	0.89	16.5	20.6
50	37	28	4.9	0.69	0.86		3.5	345	11.3	8.5	18.5	1.11	17.5	21.8
65	40	30	5.7	0.69	0.86		4.6	449	12.2	9.2	21.6	1.29	17.4	21.7
35	33	25	5.1	0.90	1.12	10	2.5	242	10.1	7.5	19.3	1.16	22.9	28.6
50	39	29	6.4	0.81	1.01		3.5	345	11.9	8.9	24.2	1.45	20.6	25.7
65	42	32	7.5	0.82	1.02		4.6	449	12.8	9.6	28.4	1.70	20.8	25.9

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.

MODELS

D25AN (D25AB)

Standard with anti-drain valve (ADV)

D25BN (D25BB)

High speed rotation and stainless steel piston sleeve

D25CN (D25CB)

Stainless steel piston sleeve, heavy-duty spring and anti-drain valve (ADV)

Note: Versions in parenthesis feature BSP threading

Accessories

D1505

Lavender Cover

D1500

Wrench

D1503

Anti-drain valve (not shown)



Radius reduction
adjustment hole



Pull-up slot

SPECIFICATIONS

OPERATING RANGE:

40-75 psi (2,7 – 5,2 bar)

MAXIMUM PRESSURE:

80 psi (5,5 bar)

DISCHARGE:

2.8 to 13.2 gpm (0,64 – 3,00 m³/hr)

SPRAY TRAJECTORY:

25°

POP-UP HEIGHT:

4" (10 cm)

BODY HEIGHT:

8" (20,3 cm)

EXPOSED CAP DIAMETER:

1 7/8" (4,7 cm)

CAP DIAMETER:

2 7/8" (7,3 cm)

TYPE OF CAP:

Rubber with locking screw

INLET SIZE:

1" (25,4 mm) female NPT (D25AN, D25BN, D25CN)

1" (25,4 mm) female BSP (D25AB, D25BB, D25CB)

SCREEN MESH:

.045 sq. in. (1, 14 mm²) / 1150 micron

ADV MODELS:

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

PER BOX:

20

FEATURES

- Bayonet protective cap
- NIR² feature (Nozzle Insertion/Radius Reduction) on all models eliminates the need to remove the cap for nozzle adjustments
- Four interchangeable Acu-Cover nozzles ranging from 2.8 to 13.2 gpm (0,64 – 3,00 m³/hr)
- Rubber cap has locking screw for vandal protection (standard on all units)
- Proven reliability of the water driven gear motor
- Click-Set[®] collars are quick and easy to adjust
- Continuous 360° rotation or part-circle adjustment 40° to 310°
- Ratcheting slip clutch protects gears and motor from damage while adjusting turret for part-circle adjustments - wet or dry
- D25BN Pro offers one minute revolution for quick syringe applications
- Heavy-duty case with stabilizer ribs increases stability even in loose soil
- Wrench, piston clamp and installation instructions included

D25 SERIES

Nozzle color ●
25° trajectory



Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹			
				IN/HR■	IN/HR▲						BAR	kPa	m	m
45	44	33	2.8	0.23	0.29	61	3.1	310	13.4	10.1	10.6	0.64	5.8	7.2
60	46	35	3.3	0.27	0.34		4.1	414	14.0	10.5	12.5	0.75	6.9	8.6
75	46	35	3.8	0.31	0.39		5.2	517	14.0	10.5	14.4	0.86	7.9	9.8
45	48	36	5.2	0.39	0.49	62	3.1	310	14.6	11.0	19.7	1.18	10.0	12.4
60	52	39	6.1	0.41	0.52		4.1	414	15.9	11.9	23.1	1.39	10.5	13.1
75	54	41	7.0	0.44	0.54		5.2	517	16.5	12.4	26.5	1.59	11.1	13.8
45	51	38	7.4	0.52	0.65	63	3.1	310	15.6	11.7	28.0	1.68	13.2	16.4
60	54	41	8.8	0.55	0.68		4.1	414	16.5	12.4	33.3	2.00	13.9	17.4
75	55	41	10.1	0.60	0.75		5.2	517	16.8	12.6	38.2	2.29	15.4	19.2
45	52	39	9.7	0.67	0.83	64	3.1	310	15.9	11.9	36.7	2.20	17.0	21.2
60	57	43	11.6	0.66	0.82		4.1	414	17.4	13.0	43.9	2.63	16.7	20.8
75	60	45	13.2	0.66	0.84		5.2	517	18.3	13.7	50.0	3.00	17.1	21.4

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.

**D25BN/D25BB
HIGH SPEED**

Nozzle color ●
25° trajectory



Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹			
				IN/HR■	IN/HR▲						BAR	kPa	m	m
45	43	32	2.8	0.29	0.34	61	3.1	310	13.1	9.8	10.6	0.64	32.3	37.3
60	43	32	3.3	0.34	0.40		4.1	414	13.1	9.8	12.5	0.75	38.1	44.0
75	43	32	3.8	0.40	0.46		5.2	517	13.1	9.8	14.4	0.86	43.8	50.6
45	44	33	5.2	0.52	0.60	62	3.1	310	13.4	10.1	19.7	1.18	57.3	66.1
60	46	35	6.1	0.56	0.64		4.1	414	14.0	10.5	23.1	1.39	61.5	71.0
75	47	35	7.0	0.61	0.71		5.2	517	14.3	10.7	26.5	1.59	67.6	78.0
45	48	36	7.4	0.62	0.72	63	3.1	310	14.6	11.0	28.0	1.68	68.5	79.1
60	50	38	8.8	0.68	0.79		4.1	414	15.2	11.4	33.3	2.00	75.1	86.7
75	50	38	10.1	0.78	0.90		5.2	517	15.2	11.4	38.2	2.29	86.2	99.5
45	46	35	9.7	0.89	1.02	64	3.1	310	14.0	10.5	36.7	2.20	97.8	112.9
60	49	37	11.6	0.93	1.08		4.1	414	14.9	11.2	43.9	2.63	103.0	119.0
75	51	38	13.2	0.98	1.13		5.2	517	15.5	11.7	50.0	3.00	108.2	125.0

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.



MODELS

D35AN (D35AB)

Standard with anti-drain valve (ADV)

D35CN (D35CB)

Stainless steel piston sleeve, heavy-duty spring and anti-drain valve (ADV)

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

Accessories

D3507

Sod Cup Kit

D3505

Lavender Cover

D3500

Wrench



SPECIFICATIONS

OPERATING RANGE:

40-90 psi (2,7 –6,2 bar)

MAXIMUM PRESSURE:

100 psi (6,9 bar)

DISCHARGE:

5.6 to 19.6 gpm (1,27 – 4,45 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 (D35AN, D35AB)

1" (25,4 mm) female BSP (D35AB, D35CB)

SCREEN MESH:

.045 sq. in. (1, 14 mm²) / 150 micron

ADV MODELS:

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

PER BOX:

10



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 5.6 to 19.6 gpm (1,27 – 4,45 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 1/2" (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

D35 SERIES

Nozzle color 
25° trajectory



Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Min Radius	Discharge	Precipitation Rate ¹	
PSI	FT	FT	GPM		IN/HR■	IN/HR▲		BAR	kPa	m	m		L/min	m ³ /HR
45	41	31	5.6	0.64	0.74	1	3.1	310	12.5	9.4	21.2	1.27	16.3	18.8
60	42	32	5.9	0.64	0.74		4.1	414	12.8	9.6	22.3	1.34	16.4	18.9
75	42	32	7.2	0.79	0.91		5.2	517	12.8	9.6	27.3	1.64	20.0	23.0
90	43	32	7.8	0.81	0.94		6.2	621	13.1	9.8	29.5	1.77	20.6	23.8
45	48	36	6.9	0.58	0.67	2	3.1	310	14.6	11.0	26.1	1.57	14.6	16.9
60	49	37	7.8	0.63	0.72		4.1	414	14.9	11.2	29.5	1.77	15.9	18.3
75	49	37	8.9	0.71	0.82		5.2	517	14.9	11.2	33.7	2.02	18.1	20.9
90	50	38	9.8	0.75	0.87	6.2	621	15.2	11.4	37.1	2.23	19.2	22.1	
45	52	39	8.7	0.62	0.72	3	3.1	310	15.9	11.9	32.9	1.98	15.7	18.2
60	53	40	9.9	0.68	0.78		4.1	414	16.2	12.1	37.5	2.25	17.2	19.9
75	53	40	11.3	0.77	0.89		5.2	517	16.2	12.1	42.8	2.57	19.7	22.7
90	54	41	12.4	0.82	0.95	6.2	621	16.5	12.3	46.9	2.82	20.8	24.0	
45	54	41	10.7	0.71	0.82	4	3.1	310	16.5	12.3	40.5	2.43	17.9	20.7
60	55	41	12.2	0.78	0.90		4.1	414	16.8	12.6	46.2	2.77	19.7	22.8
75	56	42	14.0	0.86	0.99		5.2	517	17.1	12.8	53.0	3.18	21.8	25.2
90	58	44	15.3	0.88	1.01	6.2	621	17.7	13.3	57.9	3.48	22.2	25.7	
45	55	41	11.5	0.73	0.85	5	3.1	310	16.8	12.6	43.5	2.61	18.6	21.5
60	57	43	13.2	0.78	0.90		4.1	414	17.4	13.0	50.0	3.00	19.9	22.9
75	57	43	15.1	0.89	1.03		5.2	517	17.4	13.0	57.2	3.43	22.7	26.2
90	59	44	16.4	0.91	1.05	6.2	621	18.0	13.5	62.1	3.73	23.0	26.6	
45	56	42	13.7	0.84	0.97	6	3.1	310	17.1	12.8	51.9	3.11	21.4	24.7
60	59	44	15.7	0.87	1.00		4.1	414	18.0	13.5	59.4	3.57	22.1	25.5
75	61	46	18.8	0.97	1.12		5.2	517	18.6	13.9	71.2	4.27	24.7	28.5
90	63	47	19.6	0.95	1.10	6.2	621	19.2	14.4	74.2	4.45	24.1	27.9	

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.



MODELS

D45AN (D45AB)

Standard with anti-drain valve (ADV)

D45BN (D45BB)

High speed rotation, stainless steel piston sleeve, and anti-drain valve (ADV)

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

Accessories

D3507

Sod Cup Kit

D3505

Lavender Cover

D3500

Wrench



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 (D45AN, D45BN)

1" (25,4 mm) female BSP (D45AB, D45BB)

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



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 1/2" (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

D45 SERIES

Nozzle color ●
25° trajectory



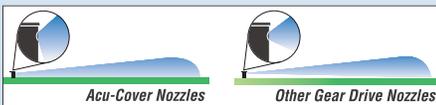
Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹			
				IN/HR■	IN/HR▲						BAR	kPa	m	m
45	53	40	9.4	0.64	0.80	3	3.1	310	16.2	12.1	35.6	2.13	16.4	20.4
60	56	42	10.9	0.67	0.83		4.1	414	17.1	12.8	41.3	2.47	17.0	21.2
75	57	43	12.2	0.72	0.90		5.2	517	17.4	13.0	46.2	2.77	18.4	22.9
90	58	44	13.4	0.77	0.96		6.2	621	17.7	13.3	50.7	3.04	19.5	24.3
45	54	41	11.4	0.75	0.94	4	3.1	310	16.5	12.4	43.1	2.59	19.1	23.8
60	59	44	13.2	0.73	0.91		4.1	414	18.0	13.5	50.0	3.00	18.6	23.1
75	61	46	14.9	0.77	0.96		5.2	517	18.6	14.0	56.4	3.38	19.6	24.4
90	62	47	16.4	0.82	1.02		6.2	621	18.9	14.2	62.1	3.72	20.9	26.0
45	57	43	12.3	0.73	0.91	5	3.1	310	17.4	13.0	46.6	2.79	18.5	23.1
60	61	46	14.4	0.75	0.93		4.1	414	18.6	14.0	54.5	3.27	18.9	23.6
75	65	49	16.2	0.74	0.92		5.2	517	19.8	14.9	61.3	3.68	18.8	23.4
90	66	50	17.8	0.79	0.98		6.2	621	20.1	15.1	67.4	4.04	20.0	24.9
60	64	48	17.5	0.82	1.03	6	4.1	414	19.5	14.6	66.2	3.97	20.9	26.1
75	68	51	20.0	0.83	1.04		5.2	517	20.7	15.6	75.7	4.54	21.2	26.4
90	68	51	22.1	0.92	1.15		6.2	621	20.7	15.6	83.6	5.02	23.4	29.2
60	65	49	19.6	0.89	1.11		7	4.1	414	19.8	14.9	74.2	4.45	22.7
75	69	52	21.3	0.86	1.07	5.2		517	21.0	15.8	80.6	4.84	21.9	27.3
90	73	55	24.6	0.89	1.11	6.2		621	22.3	16.7	93.1	5.58	22.6	28.2
60	66	50	21.8	0.96	1.20	8		4.1	414	20.1	15.1	82.5	4.95	24.5
75	71	53	24.8	0.95	1.18		5.2	517	21.7	16.2	93.9	5.63	24.1	30.0
90	74	56	27.5	0.97	1.21		6.2	621	22.6	16.9	104.1	6.24	24.6	30.6

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.

D45BN/D45BB

HIGH SPEED

Nozzle color ●
25° trajectory



Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure	Max Radius	Min Radius	Discharge	Precipitation Rate ¹			
				IN/HR■	IN/HR▲						BAR	kPa	m	m
45	48	36	9.4	0.79	0.98	3	3.1	310	14.6	11.0	35.6	2.13	20.0	24.9
60	50	38	10.9	0.84	1.05		4.1	414	15.3	11.4	41.3	2.47	21.3	26.6
75	50	38	12.2	0.94	1.17		5.2	517	15.3	11.4	46.2	2.77	23.9	29.8
90	53	40	13.4	0.92	1.15		6.2	621	16.2	12.1	50.7	3.04	23.3	29.1
45	51	38	11.4	0.84	1.05	4	3.1	310	15.6	11.7	43.1	2.59	21.4	26.7
60	54	41	13.2	0.87	1.09		4.1	414	16.5	12.4	50.0	3.00	22.1	27.6
75	55	41	14.9	0.95	1.18		5.2	517	16.8	12.6	56.4	3.38	24.1	30.0
90	55	41	16.4	1.04	1.30		6.2	621	16.8	12.6	62.1	3.72	26.5	33.1
45	52	39	12.3	0.88	1.09	5	3.1	310	15.9	11.9	46.6	2.79	22.3	27.8
60	55	41	14.4	0.92	1.14		4.1	414	16.8	12.6	54.5	3.27	23.3	29.0
75	57	43	16.2	0.96	1.20		5.2	517	17.4	13.0	61.3	3.68	24.4	30.4
90	58	44	17.8	1.02	1.27		6.2	621	17.7	13.3	67.4	4.04	25.9	32.3
60	58	44	17.5	1.00	1.25	6	4.1	414	17.7	13.3	66.2	3.97	25.4	31.7
75	60	45	20.0	1.07	1.33		5.2	517	18.3	13.7	75.7	4.54	27.2	33.9
90	61	46	22.1	1.14	1.43		6.2	621	18.6	14.0	83.6	5.02	29.1	36.2
60	58	44	19.6	1.12	1.40		7	4.1	414	17.7	13.3	74.2	4.45	28.5
75	60	45	21.3	1.14	1.42	5.2		517	18.3	13.7	80.6	4.84	28.9	36.1
90	61	46	24.6	1.27	1.59	6.2		621	18.6	14.0	93.1	5.58	32.3	40.3
60	59	44	21.8	1.21	1.50	8		4.1	414	18.0	13.5	82.5	4.95	30.6
75	61	46	24.8	1.28	1.60		5.2	517	18.6	14.0	93.9	5.63	32.6	40.7
90	64	48	27.5	1.29	1.61		6.2	621	19.5	14.6	104.1	6.24	32.8	41.0

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.

MODELS

D50C25A*

1" Full Circle Rotor with Check Valve, Acme

D50E2570A*

1" Full Circle Rotor, Electric VIH, Acme

D50H25A*

1" Full Circle Rotor, Hydraulic VIH, Acme

D50B25A*

1" Full Circle Block Rotor, with Check Valve Acme

* Pressure Regulation
(Electric Model Only)

60, 70 (Standard Pressure), or 80 PSI

*Inlet thread availability; NPT, BSP, or Acme
(standard stocking item)

*Re-Claimed Water Versions Available

D55C25A*

1" Part Circle Rotor with Check Valve, Acme

D55E2570A*

1" Part Circle Rotor, Electric VIH, Acme

D55H25A*

1" Part Circle Rotor, Hydraulic VIH, Acme

D55B25A*

1" Part Circle Block Rotor, with Check Valve, Acme

D55XC25 I4A*

1" X-Series Rotor, with Check Valve, Acme

D55XE25 I470A*

1" X-Series Rotor, Electric VIH, Acme

D55XH25 I4A*

1" X-Series Rotor, Hydraulic VIH, Acme

* Pressure Regulation
(Electric Model Only)

60, 70 (Standard Pressure), or 80 PSI

*Inlet thread availability; NPT, BSP, or Acme
(standard stocking item)

*Re-Claimed Water Versions Available



SPECIFICATIONS

OPERATING RANGE:

50-80 psi (3,4 – 5,5 bar)

MAXIMUM PRESSURE:

100 psi (6,9 bar)

MINIMUM PRESSURE:

40 psi (2,7 bar)

DISCHARGE:

11.0 to 31.3 gpm (2,49 – 7,11 m³/hr)

POP-UP HEIGHT:

4" (10 cm)

BODY HEIGHT:

9¾" (24,8 cm) (D50/D55C Series,
D50/D55E Series and D50/D55H Series)

8¼" (20,9 cm) (D50B Series)

TOP DIAMETER:

6½" (17,1 cm) (D50/D55C Series,
D50/D55E Series and D50/D55H Series)

6" (15,2 cm) (D50/D55B Series)

INLET SIZE:

1" (25,4 mm) female NPT

1" (25,4 mm) female BSP

1" (25,4 mm) female Acme

CHECK VALVE MODELS:

Holds back up to 15' (4,5 m) difference
in elevation

PER BOX:

4

D50/D55C Series, D50/D55E Series and
D50/D55H Series

8

D50/D55B Series

Accessories

D001

Snap ring/pilot valve tool

D002

Pilot valve key

D003

1" valve insertion tool

FEATURES

- A full 4-inch pop-up clears tall turfgrass for even coverage.
- Rolled-over flange keeps turfgrass clear of riser and nozzle.
- Stainless-steel riser resists damage and vandalism.
- Tough, commercial-grade plastic case stands up to punishment.
- Special design eliminates blow-by and reduces pressure loss to improve system performance.
- Dual-direction flushing protects internals from debris and ensures positive pop-up/down.
- Uniform coverage with square or triangular spacing.
- Full-circle and adjustable patterns for maximum flexibility.
- Easy arc adjustment in the field without any tools.
- Nozzle kit offers fully interchangeable nozzles and is included with each rotor.
- Unique manual On/Off control for hydraulic rotors.
- Heavy-duty spring assures positive retraction.
- Radius can be adjusted up to 25 percent for best coverage.
- Compact cartridge design allows for quick and easy repair.
- Quick lock design allows internals to be serviced from the rotor's top.

- D50/D55 C Models include factory-installed check valve
- D50/D55 E Models feature electric valve and head
- D50/D55 H Models are N.O. hydraulically controlled
- D50/D55 B Compact Models feature factory-installed check valve
- D55 X-Series are dual part-circle rotors with adjustable radii.

D50 SERIES

Pressure		Max Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Discharge	Precipitation Rate ¹	
PSI	FT	GPM	IN/HR■	IN/HR▲		BAR	kPa	m	L/s	m ³ /hr	mm/hr■	mm/hr▲
60	37	7.9	0.56	0.64	8 Black	4.1	410	11.2	0.5	1.8	14.18	16.37
70	37	10.1	0.71	0.82		4.8	480	11.2	0.6	2.3	18.13	20.93
80	—	—	—	—		5.5	550	—	—	—	—	—
60	39	9.9	0.63	0.72	12 Gray	4.1	410	11.9	0.6	2.2	15.99	18.47
70	39	11.5	0.73	0.84		4.8	480	11.9	0.7	2.6	18.58	21.45
80	—	—	—	—		5.5	550	—	—	—	—	—
60	47	13.8	0.60	0.69	14 Yellow	4.1	410	14.3	0.9	3.1	15.35	17.73
70	47	15.4	0.67	0.78		4.8	480	14.3	1.0	3.5	17.13	19.78
80	—	—	—	—		5.5	550	—	—	—	—	—
60	51	16.9	0.63	0.72	16 Orange	4.1	410	15.5	1.1	3.8	15.97	18.44
70	55	18.3	0.58	0.67		4.8	480	16.7	1.2	4.2	14.87	17.17
80	—	—	—	—		5.5	550	—	—	—	—	—
60	53	19.8	0.68	0.78	18 Brown	4.1	410	16.1	1.2	4.5	17.32	20.00
70	57	20.2	0.60	0.69		4.8	480	17.3	1.3	4.6	15.28	17.64
80	—	—	—	—		5.5	550	—	—	—	—	—
60	55	19.7	0.63	0.72	19 Red	4.1	410	16.7	1.2	4.5	16.00	18.48
70	55	21.1	0.67	0.78		4.8	480	16.7	1.3	4.8	17.14	19.79
80	59	22.2	0.61	0.71		5.5	550	18.0	1.4	5.0	15.59	18.00
60	59	22.6	0.63	0.72	25 [*] Blue	4.1	410	17.9	1.4	5.1	15.95	18.42
70	67	26.6	0.57	0.66		4.8	480	20.4	1.7	6.0	14.56	16.81
80	69	28.5	0.58	0.67		5.5	550	21.0	1.8	6.5	14.63	16.90
60	62	28.0	0.70	0.81	28 Green	4.1	410	18.8	1.8	6.4	17.90	20.67
70	71	30.8	0.59	0.68		4.8	480	21.6	1.9	7.0	15.01	17.34
80	72	32.4	0.60	0.70		5.5	550	21.9	2.0	7.4	15.28	17.64

*Factory installed

D55 SERIES

Pressure		Max Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Discharge	Precipitation Rate ¹	
PSI	FT	GPM	IN/HR■	IN/HR▲		BAR	kPa	m	L/s	m ³ /hr	mm/hr■	mm/hr▲
60	37	7.9	0.56	0.64	8 Black	4.1	410	11.2	0.5	1.8	14.18	16.37
70	37	10.1	0.71	0.82		4.8	480	11.2	0.6	2.3	18.13	20.93
80	—	—	—	—		5.5	550	—	—	—	—	—
60	40	9.0	0.54	0.63	12 Gray	4.1	410	12.2	0.6	2.0	13.82	15.96
70	40	12.0	0.72	0.83		4.8	480	12.2	0.8	2.7	18.43	21.28
80	—	—	—	—		5.5	550	—	—	—	—	—
60	49	11.9	0.48	0.55	14 Yellow	4.1	410	14.9	0.8	2.7	12.18	14.06
70	47	14.5	0.63	0.73		4.8	480	14.3	0.9	3.3	16.13	18.63
80	—	—	—	—		5.5	550	—	—	—	—	—
60	53	15.0	0.51	0.59	16 Orange	4.1	410	16.1	0.9	3.4	13.12	15.15
70	51	16.3	0.60	0.70		4.8	480	15.5	1.0	3.7	15.40	17.78
80	—	—	—	—		5.5	550	—	—	—	—	—
60	57	16.8	0.50	0.58	18 Brown	4.1	410	17.3	1.1	3.8	12.71	14.67
70	55	18.3	0.58	0.67		4.8	480	16.7	1.2	4.2	14.87	17.17
80	—	—	—	—		5.5	550	—	—	—	—	—
60	55	19.7	0.63	0.72	19 Red	4.1	410	16.7	1.2	4.5	16.00	18.48
70	55	21.1	0.67	0.78		4.8	480	16.7	1.3	4.8	17.14	19.79
80	59	22.2	0.61	0.71		5.5	550	18.0	1.4	5.0	15.59	18.00
60	61	21.2	0.55	0.63	25 [*] Blue	4.1	410	18.5	1.3	4.8	14.00	16.17
70	59	24.4	0.68	0.78		4.8	480	17.9	1.5	5.5	17.22	19.89
80	65	26.4	0.60	0.69		5.5	550	19.8	1.7	6.0	15.27	17.64
60	63	26.4	0.64	0.74	28 Green	4.1	410	19.2	1.7	6.0	16.35	18.87
70	65	26.2	0.60	0.69		4.8	480	19.8	1.7	6.0	15.24	17.60
80	67	32.4	0.66	0.76		5.5	550	20.4	1.9	6.9	16.66	19.24

*Factory installed

MODELS

D70C50A

1½" Full Circle Rotor with Check Valve, Acme

D70E5080A

1½" Full Circle Rotor, Electric VIH, Acme

D70H50A

1½" Full Circle Rotor, Hydraulic VIH, Acme

* Pressure Regulation

(Electric Model Only)

60, 70, 80 (Standard Pressure), 90 or 100 PSI

*Inlet thread availability; NPT, BSP, or Acme

(standard stocking item)

*Re-Claimed Water Versions Available

D75C32A

1½" Part Circle Rotor with Check Valve, Acme

D75E3280A

1½" Part Circle Rotor, Electric VIH, Acme

D75H32A

1½" Part Circle Rotor, Hydraulic VIH, Acme

D75XC3516A

1½" X-Series Rotor, with Check Valve, Acme

D75XE351680A

1½" X-Series Rotor, Electric VIH, Acme

D75XH3516A

1½" X-Series Rotor, Hydraulic VIH, Acme

* Pressure Regulation

(Electric Model Only)

60, 70, 80 (Standard Pressure), 90 or 100 PSI

*Inlet thread availability; NPT, BSP, or Acme

(standard stocking item)

*Re-Claimed Water Versions Available



SPECIFICATIONS

OPERATING RANGE:

60-100 psi (4,1 – 6,9 bar)

MAXIMUM PRESSURE:

100 psi (6,9 bar)

MINIMUM PRESSURE:

40 psi (2,7 bar)

DISCHARGE:

11.0 to 31.3 gpm (2,49 – 7,11 m³/hr)

POP-UP HEIGHT:

4" (10 cm)

BODY HEIGHT:

10¾" (27,3 cm)

TOP DIAMETER:

7½" (19,1 cm)

INLET SIZE:

1½" (38,1 mm) female NPT

1½" (38,1 mm) female BSP

1½" (38,1 mm) female Acme

CHECK VALVE MODELS:

Holds back up to 15' (4,5 m) difference in elevation

PER BOX:

4

Accessories

D001

Snap ring/pilot valve tool

D002

Pilot valve key

D004

1½" valve insertion tool

FEATURES

- A full 4-inch pop-up clears tall turfgrass for even coverage.
 - Rolled-over flange keeps turfgrass clear of riser and nozzle.
 - Stainless-steel riser resists damage and vandalism.
 - Tough, commercial-grade plastic case stands up to punishment.
 - Special design eliminates blow-by and reduces pressure loss to improve system performance.
 - Dual-direction flushing protects internals from debris and ensures positive pop-up/down.
 - Uniform coverage with square or triangular spacing.
 - Full-circle and adjustable patterns for maximum flexibility.
 - Easy arc adjustment in the field without any tools.
 - Nozzle kit offers fully interchangeable nozzles and is included with each rotor.
 - Unique manual On/Off control for hydraulic rotors.
 - Heavy-duty spring assures positive retraction.
 - Radius can be adjusted up to 25 percent for best coverage.
 - Compact cartridge design allows for quick and easy repair.
 - Quick lock design allows internals to be serviced from the rotor's top.
- D70/D75 C Models include factory-installed check valve
 - D70/D75 E Models feature electric valve and head
 - D70/D75 H Models are N.O. hydraulically controlled
 - D75 X-Series are dual part-circle rotors with adjustable radii.

D70 SERIES

Pressure		Max Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Discharge	Precipitation Rate ¹	
PSI	FT	GPM	IN/HR■	IN/HR▲	BAR		kPa	m	L/s	m ³ /hr	mm/hr■	mm/hr▲
60	67	33.2	0.71	0.82	37 Red	4.1	410	20.4	2.1	7.5	18.19	21.00
70	73	36.1	0.65	0.75		4.8	480	22.2	2.3	8.2	16.65	19.23
80	77	48.1	0.78	0.90		5.5	550	23.4	3.0	10.9	19.94	23.03
90	73	36.1	0.65	0.75		6.2	620	22.2	2.3	8.2	16.65	19.23
60	65	34.3	0.78	0.90	40 Gray	4.1	410	19.8	2.2	7.8	19.95	23.04
70	73	38.6	0.70	0.81		4.8	480	22.2	2.4	8.8	17.82	20.58
80	79	50.6	0.78	0.90		5.5	550	24.0	3.2	11.5	19.90	22.98
90	75	42.6	0.73	0.73	6.2	620	22.8	2.7	9.7	18.61	21.50	
60	67	36.8	0.79	0.91	45 Green	4.1	410	20.4	2.3	8.4	20.16	23.28
70	76	41.7	0.70	0.80		4.8	480	23.1	2.6	9.5	17.74	20.49
80	85	52.5	0.70	0.81		5.5	550	25.8	3.3	11.9	17.87	20.63
90	83	45.9	0.64	0.74	6.2	620	25.2	2.9	10.4	16.36	18.89	
60	73	44.6	0.81	0.93	50* Black	4.1	410	22.2	2.8	10.1	20.56	23.74
70	77	46.9	0.76	0.88		4.8	480	23.4	3.0	10.7	19.46	22.47
80	89	56.2	0.68	0.79		5.5	550	27.1	3.5	12.8	17.42	20.12
90	89	51.3	0.62	0.72	6.2	620	27.1	3.2	11.6	15.91	18.37	
60	75	46.0	0.79	0.91	57 Blue	4.1	410	22.8	2.9	10.5	20.11	23.23
70	79	48.8	0.75	0.87		4.8	480	24.0	3.1	11.1	19.20	22.17
80	93	61.7	0.69	0.79		5.5	550	28.3	3.9	14.0	17.54	20.26
90	93	54.2	0.60	0.70	6.2	620	28.3	3.4	12.3	15.39	17.77	

*Factory installed

D75 SERIES

Pressure		Max Radius	Discharge	Precipitation Rate ¹		Nozzle Number	Pressure		Max Radius	Discharge	Precipitation Rate ¹	
PSI	FT	GPM	IN/HR■	IN/HR▲	BAR		kPa	m	L/s	m ³ /hr	mm/hr■	mm/hr▲
60	67	27.5	0.59	0.68	32* Yellow	4.1	410	20.4	1.7	6.2	15.03	17.35
70	69	29.3	0.59	0.68		4.8	480	21.0	1.8	6.6	15.10	17.44
80	69	31.6	0.64	0.74		5.5	550	21.0	2.0	7.2	16.31	18.83
90	71	33.1	0.63	0.73	6.2	620	21.6	2.1	7.5	16.11	18.60	
60	67	28.0	0.60	0.69	36 Gray	4.1	410	20.4	1.8	6.4	15.32	17.69
70	69	32.2	0.65	0.75		4.8	480	21.0	2.0	7.3	16.59	19.16
80	69	34.0	0.69	0.79		5.5	550	21.0	2.1	7.7	17.52	20.23
90	73	36.5	0.66	0.76	6.2	620	22.2	2.3	8.3	16.82	19.43	
60	65	32.3	0.74	0.85	41 Orange	4.1	410	19.8	2.0	7.3	18.80	21.71
70	71	34.5	0.76	0.76		4.8	480	21.6	2.2	7.8	16.81	19.41
80	73	37.7	0.79	0.79		5.5	550	22.2	2.4	8.6	17.40	20.10
90	73	39.9	0.72	0.83	6.2	620	22.2	2.5	9.1	18.40	21.25	

*Factory installed

MODELS

JOHN DEERE REPLACEMENT INTERNALS

DI5025

D50 Replacement Internal, #25 Blue Nozzle

DI50B25

D50B Replacement Internal, #25-Blue Nozzle

DI5525

D55 Replacement Internal, #25-Blue Nozzle

DI55B25

D55B Replacement Internal, #25-Blue Nozzle

DI55X25 I4

D55X Replacement Internal, #25-Blue (Front) / #14-Yellow (Rear)

DI7050

D70 Replacement Internal, #50-Black Nozzle

DI7532

D75 Replacement Internal, #32-Yellow Nozzle

DI75X35 I8

D75X Replacement Internal, #35-Yellow (Front) / #18-Brown (Rear)



RAINBIRD REPLACEMENT INTERNALS

DI47R25

Rain Bird 47DR Replacement Internal, #25-Blue Nozzle

DI47RX25 I4

Rain Bird 47DR X-Series Replacement Internal, #25-Blue (Front) / #14-Yellow (Rear)

DI51R25

Rain Bird 51DR Replacement Internal, #25-Blue Nozzle

DI700R25

Rain Bird Eagle 700 Replacement Internal, #25-Blue Nozzle

DI750R25

Rain Bird Eagle 750 Replacement Internal, #25-Blue Nozzle

DI750RX25 I4

Rain Bird Eagle 750 X-Series Replacement Internal, #25-Blue (Front) / #14-Yellow (Rear)

SPECIFICATIONS

REPLACEMENTS FOR TORO[®]:

1" Inlet Bodies

DI6734T Full-circle, DI6735T Part-circle, DI865T Part-circle

Radius: 52'-75'

Flowrate: 11.0-35.5 GPM

Replacement Upgrades for: Toro 630, 660, 730, 760 and 830, 860

1 1/2" Inlet Bodies

DI674754T Full-circle

Radius: 66'-100'

Flowrate: 25.1-66.0 GPM

Replacement Upgrade for: Toro 650, 670, 680, 750, 780

DI6785T Part-circle

Radius: 56'-82'

Flowrate: 13.0-35.3 GPM

Replacement Upgrade for: Toro 650, 680, 750, 780

DI694T Full-circle

Radius: 91'-100'

Flowrate: 57.0-66.0 GPM

Replacement Upgrade for: Toro 690

REPLACEMENTS FOR RAINBIRD[®]:

1 1/4" Inlet Bodies

DI700R Full-circle, DI750R Part-circle

Radius: 53'-72'

Flowrate: 12.5-33.0 GPM

Replacement Upgrades for: RainBird Eagle 700, Eagle 750

1 1/2" Inlet Bodies

DI51R Full-circle, DI47R Part-circle

Radius: 53'-72'

Flowrate: 12.5-33.0

GPM Replacement Upgrades for: RainBird 47D, 51D

TORO REPLACEMENT INTERNALS

DI6734T25

1" Toro 630/730, 660/760 Insert, #25-Blue Nozzle

DI6735T25

1" Toro 635/735, 665/765 Insert, #25-Blue Nozzle

DI6735TX25

1" Toro 630, 660, 730 & 760 X-Series Insert, #25-Blue (Front) / #14-Yellow (Rear)

DI6785T26

1 1/2" Toro 650/750, 680/780 Insert, #26-Blue Nozzle

DI6785TX16

1 1/2" Toro 650/750, 680/780 X-Series Insert, #30-Yellow (Front) / #16-Orange (Rear)

DI674754T50

1 1/2" Toro 650/750, 680/780 Insert, #50-Black Nozzle

DI694T50

1 1/2" Toro 690 Insert, #50-Black Nozzle

DI834T25

1" Toro 830/860 Insert, #25-Blue Nozzle

DI865T25

1" Toro 835/865 Insert, #25-Blue Nozzle

DI6785T Performance Data

Pressure			Radius	Discharge	Nozzle Number	Pressure			Toro® Nozzle Reference	
PSI	FT	GPM				BAR	m	L/s	650	780
50	56	13.0			16 Orange	3.4	17.0	0.82	54	83
60	57	14.2		4.1		17.3	0.89			
70	58	15.4		4.8		17.6	0.97			
80	59	16.4		5.5		17.9	1.03			
90	60	17.5		6.2		18.2	1.10			
100	61	18.6		6.9	18.5	1.17				
50	61	16.4			21 Brown	3.4	18.5	1.03	55	84
60	62	18.0		4.1		18.8	1.13			
70	64	19.4		4.8		19.5	1.22			
80	65	20.7		5.5		19.8	1.30			
90	68	21.9		6.2		20.7	1.38			
100	70	23.1		6.9	21.3	1.45				
50	62	21.8			26 Blue	3.4	18.8	1.37	56	85
60	64	23.4		4.1		19.5	1.47			
70	66	24.8		4.8		20.1	1.56			
80	67	26.0		5.5		20.4	1.64			
90	70	28.1		6.2		21.3	1.77			
100	70	28.1		6.9	21.3	1.77				
50	65	22.4			29 Red	3.4	19.8	1.41	57	—
60	70	25.2		4.1		21.3	1.58			
70	72	27.0		4.8		21.9	1.70			
80	75	28.8		5.5		22.8	1.81			
90	77	30.6		6.2		23.4	1.93			
100	79	32.1		6.9	24.0	2.02				
50	66	25.8			32 Gray	3.4	20.1	1.62	58	86
60	71	26.9		4.1		21.6	1.69			
70	75	29.7		4.8		22.8	1.87			
80	78	31.7		5.5		23.7	1.99			
90	80	33.5		6.2		24.3	2.11			
100	82	35.3		6.9	24.9	2.22				

DI700R/DI750R & DI51R/DI47R Performance Data

Pressure			Radius	Discharge	Nozzle Number	Pressure			Rain Bird® Nozzle Reference	
PSI	FT	GPM				BAR	m	L/s	47D	51D
50	52	12.5			14 Orange	3.4	15.8	0.78	18	—
60	55	13.5		4.1		16.7	0.85			
70	57	15.0		4.8		17.3	0.94			
80	61	17.0		5.5		18.5	1.16			
90	61	18.0		6.2		18.5	1.16			
100	61	19.0		6.9	18.5	1.16				
50	55	17.0			16 Brown	3.4	16.7	1.05	16	16
60	58	18.5		4.1		17.6	1.11			
70	60	20.0		4.8		18.2	1.14			
80	62	22.0		5.5		18.9	1.19			
90	62	23.5		6.2		18.9	1.19			
100	62	24.0		6.9	18.9	1.19				
50	60	22.0			18 Blue	3.4	18.2	1.38	18	18
60	62	23.5		4.1		18.9	1.48			
70	65	25.0		4.8		19.8	1.57			
80	66	26.0		5.5		20.1	1.64			
90	67	27.0		6.2		20.4	1.70			
100	67	28.5		6.9	20.4	1.79				
50	64	24.5			20 Red	3.4	19.5	1.54	20	20
60	66	26.0		4.1		20.1	1.64			
70	67	27.5		4.8		20.4	1.73			
80	68	29.0		5.5		20.7	1.82			
90	70	31.5		6.2		21.3	1.98			
100	70	33.0		6.9	21.3	2.08				

DI6734T, DI6735T & DI865T Performance Data

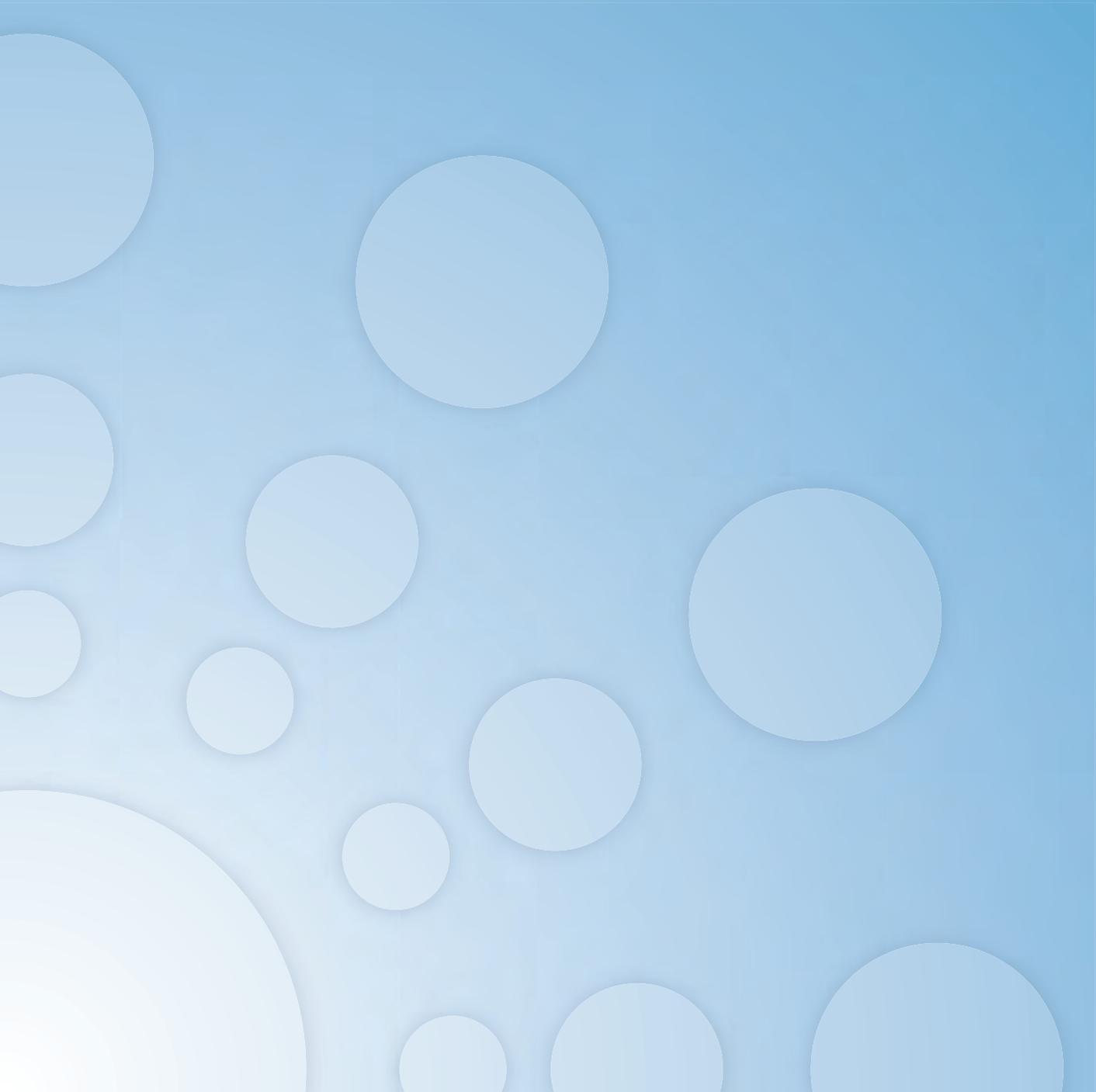
Pressure			Radius	Discharge	Nozzle Number	Pressure			Toro® Nozzle Reference	
PSI	FT	GPM				BAR	m	L/s	650	780
50	56	13.0			16 Orange	3.4	17.0	0.82	54	83
60	57	14.2		4.1		17.3	0.89			
70	58	15.4		4.8		17.6	0.97			
80	59	16.4		5.5		17.9	1.03			
90	60	17.5		6.2		18.2	1.10			
100	61	18.6		6.9	18.5	1.17				
50	61	16.4			21 Brown	3.4	18.5	1.03	55	84
60	62	18.0		4.1		18.8	1.13			
70	64	19.4		4.8		19.5	1.22			
80	65	20.7		5.5		19.8	1.30			
90	68	21.9		6.2		20.7	1.38			
100	70	23.1		6.9	21.3	1.45				
50	62	21.8			26 Blue	3.4	18.8	1.37	56	85
60	64	23.4		4.1		19.5	1.47			
70	66	24.8		4.8		20.1	1.56			
80	67	26.0		5.5		20.4	1.64			
90	70	28.1		6.2		21.3	1.77			
100	70	28.1		6.9	21.3	1.77				
50	65	22.4			29 Red	3.4	19.8	1.41	57	—
60	70	25.2		4.1		21.3	1.58			
70	72	27.0		4.8		21.9	1.70			
80	75	28.8		5.5		22.8	1.81			
90	77	30.6		6.2		23.4	1.93			
100	79	32.1		6.9	24.0	2.02				
50	66	25.8			32 Gray	3.4	20.1	1.62	58	86
60	71	26.9		4.1		21.6	1.69			
70	75	29.7		4.8		22.8	1.87			
80	78	31.7		5.5		23.7	1.99			
90	80	33.5		6.2		24.3	2.11			
100	82	35.3		6.9	24.9	2.22				

DI5070 & DI3575 Performance Data

Pressure			Radius	Discharge	Nozzle Number	Pressure			Rain Bird® Nozzle Reference	
PSI	FT	GPM				BAR	m	L/s	700	750
50	21	4.9			06 Blank	3.4	6.4	0.30	—	—
60	34	5.4		4.1		10.3	0.34			
70	39	6.3		4.8		11.8	0.39			
80	—	—		5.5		—	—			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				
50	30	6.8			08 Black	3.4	9.1	0.42	—	—
60	32	7.6		4.1		9.7	0.47			
70	34	8.4		4.8		10.3	0.52			
80	—	—		5.5		—	—			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				
50	53	11.0			14 Yellow	3.4	16.1	0.69	14	14
60	55	12.9		4.1		16.7	0.81			
70	57	14.5		4.8		17.3	0.91			
80	—	—		5.5		17.3	0.91			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				
50	56	13.1			16 Orange	3.4	17.0	0.82	16	16
60	58	14.8		4.1		17.6	0.93			
70	60	16.2		4.8		18.2	1.02			
80	—	—		5.5		—	—			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				
50	61	16.5			16 Brown	3.4	18.5	1.04	18	18
60	62	17.6		4.1		18.8	1.11			
70	63	18.7		4.8		19.2	1.17			
80	—	—		5.5		—	—			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				
50	63	21.8			25 Blue	3.4	19.2	1.37	20	20
60	64	23.4		4.1		19.5	1.47			
70	65	24.8		4.8		19.8	1.56			
80	68	26.0		5.5		20.7	1.64			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				
50	65	24.5			28 Green	3.4	19.8	1.54	—	—
60	67	26.5		4.1		20.4	1.67			
70	69	28.1		4.8		21.0	1.77			
80	74	30.5		5.5		22.5	1.92			
90	—	—		6.2		—	—			
100	—	—		6.9	—	—				

DI6754T & DI694T Performance Data

Pressure			Radius	Discharge	Nozzle Number	Pressure			Toro® Nozzle Reference				
PSI	FT	GPM				BAR	m	L/s	650	670	680	750	780
50	—	—			29 Yellow	3.4	—	—	56	—	—	54	84
60	66	25.1		4.1		20.1	1.58						
70	69	27.0		4.8		21.0	1.70						
80	72	28.8		5.5		21.9	1.81						
90	74	30.6		6.2		22.5	1.93						
100	76	32.1		6.9	23.1	2.02							
50	—	—			32 Gray	3.4	—	—	57	—	84	55	85
60	68	26.9		4.1		20.7	1.69						
70	71	29.7		4.8		21.6	1.87						
80	74	31.7		5.5		22.5	1.99						
90	76	33.5		6.2		23.1	2.11						
100	78	35.3		6.9	23.7	2.22							
50	—	—			37 Red	3.4	—	—	58	—	85	56	86
60	74	34.0		4.1		22.5	2.14						
70	75	35.5		4.8		22.8	2.23						
80	76	37.0		5.5		23.1	2.33						
90	78	38.5		6.2		23.7	2.42						
100	78	40.0		6.9	23.7	2.62							
50	—	—			40 Brown	3.4	—	—	59	70	86	—	87
60	78	38.0		4.1		23.7	2.39						
70	79	39.0		4.8		24.0	2.46						
80	80	40.0		5.5		24.3	2.62						
90	82	41.5		6.2		24.9	2.61						
100	84	43.0		6.9	25.6	2.71							
50	—	—			45 Green	3.4	—	—	—	71	87	57	88
60	80	41.5		4.1		24.3	2.61						
70	82	43.0		4.8		24.9	2.71						
80	84	45.0		5.5		25.6	2.83						
90	86	47.0		6.2		26.2	2.96						
100	87	49.0		6.9	26.5	3.09							
50	—	—			50 Black	3.4	—	—	—	72	88	58	89
60	—	—		4.1		—	—						
70	85	47.5		4.8		25.9	2.99						
80	87	50.0		5.5		26.5	3.15						
90	89	53.0		6.2		27.1	3.34						
100	91	57.0		6.9	27.7	3.59							
50	—	—			57 Blue	3.4	—	—	—	73, 74	—	—	—
60	—	—		4.1		—	—						
70													



SPRAYS

APPLICATIONS	DS10	DS11	DS12	DS13	DS14
BUNKER SURROUNDS	✓	✓	✓	✓	✓
CLUBHOUSE GROUNDS	✓	✓	✓	✓	✓
RECLAIMED WATER	✓	✓	✓	✓	✓
HIGH TRAFFIC AREAS			✓	✓	✓
HIGH VANDALISM AREAS			✓	✓	✓
WATER CONSERVATION — iStop™			✓	✓	✓
FEATURES					
ANTI-DRAIN VALVE (ADV)	(Opt.)*	✓	(Opt.)*	(Opt.)*	✓
PRESSURE REGULATION				✓	✓
WATER CONSERVATION — iStop™			✓	✓	✓

*Field Retrofit Option

PRODUCT OVERVIEW

Over the past year, the spray head series from Signature has been reinvented. We've combined the best of our two previous lines into one and added a major new feature set. Now whether you need just a basic production spray line or a top end specification driven product with no equal, Signature has the product you need.

Standard Models



DS10

STANDARD

- High impact corrosion resistant construction with stainless steel metal components.
- Dome cap design will ensure sand and debris flush away from the riser to provide for longer life.
- Double lipped wiper seal will help keep debris away from the riser.
- $\frac{1}{2}$ " (12,7 mm) bottom inlet is standard on all models.
- All models can be upgraded with an anti-drain valve (ADV) and the new iStop™.
- Standard male thread on the riser.
- All models can be upgraded to use iStop™ with installation of retrofit kit DSIR.



DS11

WITH ADV

- The DS11 series comes with all the same great features as the standard DS10 model with the addition of the anti-drain valve (ADV).
- The anti-drain valve (ADV) will prevent low head drainage and prevent flooding or erosion.
- Will hold back up to 10 ft (3 m) difference in elevation.
- All models can be upgraded to use iStop™ with installation of retrofit kit DSIR.

NOZZLES



- Wide range of matched precipitation fixed spray.
- Color coded bodies for easy identification.
- Multi-arc nozzles from 8 ft – 17 ft (2.4 m – 5.2 m) radius that can be adjusted from 0° - 360°.
- Fixed spray nozzles from 8 ft – 15 ft (2.4 m – 4.6 m) radius in all the various patterns.
- Wide variety of special pattern nozzles.

Advanced Models using iStop™

WITH iStop™

- The DS12 series comes with all the same great features as the standard DS10 model with the addition of the new iStop™ feature.

- The new iStop™ saves water by stopping the flow of water on broken or damaged heads as well as stopping the flow of water during nozzle maintenance.



DS12

WITH iStop™ AND PR

- The DS13 series comes with the iStop™ feature and the addition of a pressure regulating valve.
- The new iStop™ saves water by stopping the flow of water on broken or damaged heads as well as stopping the flow of water during nozzle maintenance.

- The pressure regulator maintains optimum nozzle performance and prevents misting.



DS13

WITH iStop™, PR AND ADV

- The DS14 series comes with the iStop™ feature, a pressure regulating valve, and a factory installed anti-drain valve (ADV).
- The new iStop™ saves water by stopping the flow of water on broken or damaged heads as well as stopping the flow of water during nozzle maintenance.

- The pressure regulator maintains optimum nozzle performance and prevents misting.
- The anti-drain valve (ADV) will prevent low head drainage and prevent flooding or erosion.
- Will hold back up to 10 ft (3 m) difference in elevation.



DS14

- Retrofit any existing 6300 sprayhead with new iStop™.
- The new iStop™ saves water by stopping the flow of water on broken or damaged heads as well as stopping the flow of water during nozzle maintenance.



DS1R
iStop™
RETROFIT
KITS

MODELS

STANDARD

- DS1002**
2½" (6,3 cm) Pop-up
- DS1004**
4" (10,2 cm) Pop-up
- DS1006**
6" (15,2 cm) Pop-up
- DS1012**
12" (30,5 cm) Pop-up

WITH ADV

- DS1102**
2½" (6,3 cm) Pop-up
- DS1104**
4" (10,2 cm) Pop-up
- DS1106**
6" (15,2 cm) Pop-up
- DS1112**
12" (30,5 cm) Pop-up

WITH iStop™

- DS1202**
2½" (6,3 cm) Pop-up
- DS1204**
4" (10,2 cm) Pop-up
- DS1206**
6" (15,2 cm) Pop-up
- DS1212**
12" (30,5 cm) Pop-up

WITH iStop™ AND PR

- DS1304**
4" (10,2 cm) Pop-up
- DS1306**
6" (15,2 cm) Pop-up
- DS1312**
12" (30,5 cm) Pop-up

WITH iStop™, PR AND ADV

- DS1404**
4" (10,2 cm) Pop-up
- DS1406**
6" (15,2 cm) Pop-up
- DS1412**
12" (30,5 cm) Pop-up



SPECIFICATIONS

OPERATING RANGE:

- 15-60 psi (1-4,1 bar)
- 20-60 psi (1,3-4,1 bar) ADV models

OPTIMUM PRESSURE:

- 30 psi (2 bar)

MAXIMUM PRESSURE:

- 60 psi (4,1 bar)

SEALING PRESSURE:

- 10 psi (0,7 bar)
- 20 psi (1,3 bar) ADV models

POP-UP HEIGHT:

- 2½" (6,3 cm) (DS-02)
- 4" (10,2 cm) (DS-04)
- 6" (15,2 cm) (DS-06)
- 12" (30,5 cm) (DS-12)

BODY HEIGHT:

- 3½" (8,9 cm) (DS-02)
- 3¾" (9,8 cm) (DS-04)
- 5⅞" (15 cm) (DS-06)
- 15" (38,1 cm) (DS-12)

SHRUB MODEL AVAILABLE

FLUSH RATE:

- 0.2 gpm (0,75 l/min)

INLET SIZE:

- ½" (12,7 mm) NPT Female thread

CHECK HEIGHT:

- 10 ft (3 m) elevation change

SCREEN MESH:

- .045 sq. in. (1,14 mm²) / 1150 micron

EFFLUENT CAP AVAILABLE

PER BOX:

- 50
DS-02 Series, DS-04 Series, DS-06 Series
- 25
DS-12 Series

ACCESSORY FEATURES

iStop™ DSIR Retrofit Kit

- Shuts off if the nozzle is removed
- Shuts off if the riser is broken at any point above the top level of the cap
- Retrofit any existing 6300 sprayhead with new iStop™

6318 (Not Shown)

- Adds 6" (15, 24 cm) to any series pop-up
- Perfect for landscape areas that need extra clearance
- It threads directly onto the top of the piston and accepts all Signature spray nozzles

6319

- Anti-drain valve (ADV) helps eliminate low head drainage and puddling. Holds back up to 10 ft (3 m) difference in elevation.

6300

- Adapt from 1/2" (12,7mm) NPT to a standard female thread spray nozzle

D1700

- Provides an umbrella pattern that can be adjusted with a stainless steel set screw
- Bubbler installs on standard 1/2" (12,7 mm) riser and has a maximum flow of 4.9 gpm (7,6 l/min) at 18" (45 cm) radius



iStop™ DSIR Retrofit Kits

DSIR02

2 1/2" (6,3 cm)
Retrofit iStop™ Kit

DSIR04

4" (10,2 cm)
Retrofit iStop™ Kit

DSIR06

6" (15,2 cm)
Retrofit iStop™ Kit

DSIR12

12" (30,5 cm)
Retrofit iStop™ Kit

Accessories

6318

Piston Extension

6319

Anti-drain valve (ADV)

6390RWC

Identifies reclaimed water site

6300

Shrub Adapter

D1700

Adjustable Bubbler

Pressure			Model	Pressure		Radius ¹		Discharge ¹	
PSI	FT	GPM		BAR	kPa	m	L/min	m ³ hr	
20	0.8	2.9	D1700 FULL (360°) 	1.4	138	0.2	11.0	0.66	
30	0.9	3.5		2.1	207	0.3	13.2	0.79	
40	1.1	4.1		2.8	276	0.3	15.5	0.93	
50	1.2	4.5		3.5	345	0.4	17.0	1.02	
60	1.2	4.9		4.2	414	0.4	18.5	1.11	

¹ Radius and flow can be reduced with adjustment screw.





8' (2,4 m) FIXED PATTERN (5° Trajectory - flat)

Pressure					Discharge					Precipitation Rate																														
PSI		FT. R		GPM		■ IN/HR ▲			Model		BARS		M		M³H L/min		■ MM/HR ▲																							
15	6	1.0	2.3	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0	D1984 8F-FLT FULL (360°)	1.1	104	1.8	0.23	3.8	58.4	71.1	1.4	138	2.1	0.27	4.5	53.3	66.0	1.8	173	2.1	0.27	4.5	50.8	63.5	2.1	207	2.4	0.34	5.7	48.2	61.0
20	7	1.2	2.1	2.6	1.4	138	2.1	0.27	4.5	53.3	66.0		1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0
25	7	1.2	2.0	2.5	1.4	138	2.1	0.27	4.5	53.3	66.0		1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0
30	8	1.5	1.9	2.4	1.4	138	2.1	0.27	4.5	53.3	66.0		1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0
15	6	0.5	2.3	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0		1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0
20	7	0.6	2.1	2.6	1.4	138	2.1	0.27	4.5	53.3	66.0		1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0
25	7	0.6	2.0	2.5	1.4	138	2.1	0.27	4.5	53.3	66.0	1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0	
30	8	0.7	1.9	2.3	1.4	138	2.1	0.27	4.5	53.3	66.0	1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0	
15	6	0.3	2.3	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0	1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0	
20	7	0.3	2.1	2.6	1.4	138	2.1	0.27	4.5	53.3	66.0	1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0	
25	7	0.3	2.0	2.5	1.4	138	2.1	0.27	4.5	53.3	66.0	1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0	
30	8	0.4	1.9	2.3	1.4	138	2.1	0.27	4.5	53.3	66.0	1.1	104	1.8	0.11	1.9	58.4	71.1	1.4	138	2.1	0.14	2.3	53.3	66.0	1.8	173	2.1	0.14	2.3	50.8	63.5	2.1	207	2.4	0.16	2.6	48.2	61.0	



8' (2,4 m) D2007-S MULTI-ARC (5° Trajectory)

Pressure					Discharge					Precipitation Rate																										
PSI		FT. R		GPM		■ IN/HR ▲			Model		BARS		M		M³H L/min		■ MM/HR ▲																			
20	8	1.8	2.7	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0	D2007 FULL (360°)	1.4	2.4	0.41	6.8	70.9	61.4	2.0	2.4	0.48	8.1	84.7	73.4	2.8	3.0	0.56	9.5	63.1	54.6	3.5	3.0	0.63	10.6	70.6	61.2
30	8	2.1	3.2	3.7	1.4	138	2.1	0.27	4.5	53.3	66.0		1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2
40	10	2.5	2.4	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0		1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2
50	10	2.8	2.7	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0		1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2
20	8	1.3	2.0	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0		1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2
30	8	1.5	2.3	3.7	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
40	10	1.8	1.7	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
50	10	2.1	2.0	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
20	8	0.8	1.2	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
30	8	1.0	1.5	3.7	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
40	10	1.1	1.0	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
50	10	1.2	1.2	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
20	8	0.5	0.7	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
30	8	0.6	0.9	3.7	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
40	10	0.7	0.7	2.8	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	
50	10	0.8	0.8	3.1	1.4	138	2.1	0.27	4.5	53.3	66.0	1.4	2.4	0.30	5.1	53.2	61.4	2.0	2.4	0.35	5.9	61.5	73.4	2.8	3.0	0.41	6.8	45.4	54.6	3.5	3.0	0.47	7.9	52.9	61.2	



10' (3,1 m) FIXED PATTERN (15° Trajectory - low angle)

Pressure					Discharge					Precipitation Rate																							
PSI		FT. R		GPM		■ IN/HR ▲			Model		BARS		M		M³H L/min		■ MM/HR ▲																
15	7	1.2	2.3	2.6	1.1	104	2.1	0.27	4.5	58.4	66.0	D1874 10F-LA FULL (360°)	1.4	138	2.4	0.30	4.9	50.8	58.4	1.8	173	2.7	0.32	5.3	43.2	50.8	2.1	207	3.1	0.36	6.1	38.1	45.7
20	8	1.3	2.0	2.3	1.1	104	2.1	0.27	4.5	58.4	66.0		1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6	43.2	50.8	2.1	207	3.1	0.18	3.0	38.1	45.7
25	9	1.4	1.7	2.0	1.1	104	2.1	0.27	4.5	58.4	66.0		1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6	43.2	50.8	2.1	207	3.1	0.18	3.0	38.1	45.7
30	10	1.6	1.5	1.8	1.1	104	2.1	0.27	4.5	58.4	66.0	1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6	43.2	50.8	2.1	207	3.1	0.18	3.0	38.1	45.7	
15	7	0.6	2.3	2.6	1.1	104	2.1	0.27	4.5	58.4	66.0	D1872 10H-LA 1/2 (180°)	1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6	43.2	50.8	2.1	207	3.1	0.18	3.0	38.1	45.7
20	8	0.6	2.0	2.3	1.1	104	2.1	0.27	4.5	58.4	66.0		1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6	43.2	50.8	2.1	207	3.1	0.18	3.0	38.1	45.7
25	9	0.7	1.7	2.0	1.1	104	2.1	0.27	4.5	58.4	66.0		1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6	43.2	50.8	2.1	207	3.1	0.18	3.0	38.1	45.7
30	10	0.8	1.5	1.8	1.1	104	2.1	0.27	4.5	58.4	66.0	1.4	138	2.4	0.14	2.3	58.4	66.0	1.8	173	2.7	0.16	2.6										



VALVES

APPLICATIONS	QUANTUM	DI100	DI100GU	D200GU	D200G
FLOW CONTROL		✓	✓	✓	✓
W/O FLOW CONTROL	✓	✓	✓		
HIGH PRESSURE	✓			✓	✓
RECLAIMED WATER		✓	✓	✓	✓
EZ CONNECT™			✓	✓	

PRODUCT OVERVIEW

Quantum Series



- Simple proven design has few moving parts.
- Available with built in pressure regulation.
- Comes in 1" (25,4 mm) — 2" (50, 8 mm) Male BSP and NPT models.
- Easy to operate internal bleed system.
- Heavy duty glass filled Nylon construction.

D100



- Heavy duty glass filled nylon construction.
- Simple proven design has few moving parts.
- Available with or without flow control.
- Comes in 1" (25,4 mm) NPT or BSP versions.
- Bayonet mounted bonnet for quick and easy servicing.

- $\frac{3}{4}$ " (19,05 mm) & 1" (25,4 mm) EZ connect union valve makes installation and valve replacement a snap.
- Heavy duty glass filled nylon construction.
- Available with or without flow control.
- Many $\frac{3}{4}$ " (19,05 mm) and 1" (25,4 mm) fittings available: BSP female, BSP male, Barb, Slip, NPT Female and NPT male.
- Bayonet mounted bonnet for quick and easy servicing.

D100GU



- $1\frac{1}{2}$ " – 2" (38,1 mm – 50,8 mm) EZ connect union valve makes installation and valve replacement a snap.
- Heavy duty glass filled nylon body with a PVC bonnet.
- Many $1\frac{1}{2}$ " (38,1 mm) and 2" (50,8 mm) fittings available: BSP female, Slip, NPT Female and Isolation valves.
- Eight stainless steel nuts grip into the bonnet to accommodate for extreme climatic fluctuations.

D200GU



- $1\frac{1}{2}$ " (38,1 mm) and 2" (50,8 mm) combination globe or angle valve.
- Heavy duty glass filled nylon body with a PVC bonnet.
- Eight stainless steel nuts grip into the bonnet to accommodate for extreme climatic fluctuations.
- 200 PSI (13,8 bar) rated for heavy duty applications.

D200G



MODELS

D100E (MC100EB)*
1" (25,4 mm) electric globe pressure regulated valve NPT MxM

D150E (MC150EB)*
1½" (38,1 mm) electric globe pressure regulated valve NPT MxM

D150E3 (MC150EB3)*
1½" (38,1 mm) 3-way electric globe pressure regulated valve NPT MxM

D150H (MC150HB)*
1½" (38,1 mm) hydraulic globe pressure regulated valve NPT MxM

D200E (MC200EB)*
2" (50,8 mm) electric globe pressure regulated valve NPT MxM

D200EB (MC200EB)*
2" (50,8 mm) electric globe pressure regulated valve BSP MxM

D200E3 (MC200EB3)*
2" (50,8 mm) 3-way electric globe pressure regulated valve NPT MxM

D200H (MC200HB)*
2" (50,8 mm) hydraulic globe pressure regulated valve NPT MxM

*EB = BSP Conventional



SPECIFICATIONS

FACTORY PRESSURE SETTINGS:

Available in 35, 50, 65 and 80 PSI

STANDARD FACTORY SETTINGS:

80 PSI (5,5 BAR)

SOLENOID:

24 VAC 50/60 Hz

Inrush Amps: 0.30

Holding Amps: 0.20

FEATURES

- High Performance
- Low pressure loss
- Unique snap ring serviceability
- 200 PSI pressure rating
- Common solenoid with valve-in-head (E-models)
- Male pipe threads for strength and high-pressure rating

Quantum Series Valve Pressure Loss

PSI Loss	Flow Rate (GPM)								
	30	40	50	70	90	100	120	150	180
1 1/2"	1.5	1.5	1.5	1.5	3.5	4.0	5.0	5.5	8.0
2"	1.5	1.5	1.5	3.5	4.5	5.5	6.0	9.0	—
PSI Loss	Flow Rate (GPM)								
	5	10	20	30	40				
1"	2.0	2.5	3.5	5.0	8.5				

SPECIFICATIONS

FLOW RANGE:

Less than 1 to 30 gpm (0,23 – 6,81 m³/hr)

MINIMUM PRESSURE:

10 psi (0,7 bar)

MAXIMUM PRESSURE:

150 psi (10,3 bar)

INPUT:

24V AC

INRUSH CURRENT:

0.50 amps or less

HOLDING CURRENT:

0.23 amps

THREADING:

NPT (D100GN, D100GFCN)

BSP (D100GB, D100GFCB)

DIMENSIONS (L x W x H)

4" (10,2 cm) x 2¾" (7 cm) x 5" (12,7 cm)
(D100GN, D100GFCN)

3¾" (9,5 cm) x 2¾" (7 cm) x 5½" (15 cm)
(7931, 7941)

PER BOX:

20

FEATURES

- Directly compatible with SoloRain® series of battery-operated actuators
- Body and bonnet made of glass reinforced nylon to prevent leaks and breaks
- Simple valve configuration and design; few moving parts
- Solenoid has stainless steel plunger and spring to prevent corrosion
- Manual internal bleed keeps valve box dry
- Bayonet-mounted bonnet with captured diaphragm for quick and easy servicing
- Fabric reinforced diaphragm for increased durability
- Easy-to-use flow control permits manual adjustment of water flow rate (does not apply to models D100GN, D100GB)
- ACCESSORIES
DSNDL: Reclaimed water solenoid



MODELS

D100GN (D100GB)
Manual Internal Bleed 1" (25,4 mm) globe

D100GFCN (D100GFCB)
Manual Internal Bleed 1" (25,4 mm) globe with flow control

Note: Versions in parenthesis feature BSP threading

Accessories

DSNDL
Reclaimed water solenoid

D100GN (D100GB BSP) & D100GFCN (D100GFCB BSP) 1" (25,4 mm) GLOBE VALVE

Flow	Pressure Loss	Flow	Pressure Loss	Flow	Pressure Loss
GPM	PSI	L/min	kPa	m ³ /hr	BAR
1	4.0	3.8	28	0.23	0.3
5	2.5	18.9	17	1.14	0.2
10	2.0	37.9	14	2.27	0.1
15	2.5	56.8	17	3.41	0.2
20	3.5	75.7	24	4.54	0.2
25	4.5	94.6	31	5.68	0.3
30	6.5	113.6	45	6.81	0.5

7931 & 7941 1" (25,4 mm) ANGLE VALVE

Flow	Pressure Loss	Flow	Pressure Loss	Flow	Pressure Loss
GPM	PSI	L/min	kPa	m ³ /hr	BAR
1	4.0	3.8	28	0.23	0.3
5	2.5	18.9	17	1.14	0.2
10	2.0	37.9	14	2.27	0.1
15	2.5	56.8	17	3.41	0.2
20	3.0	75.7	21	4.54	0.2
25	4.0	94.6	28	5.68	0.3
30	5.5	113.6	38	6.81	0.4

MODELS

DI00GUN

Manual Internal Bleed 1" (25,4 mm) union globe

DI00GUFCN

Manual Internal Bleed 1" (25,4 mm) union globe with flow control

3/4" Fittings (19,05 mm)	1" Fittings (25,4 mm)
9501-075BM	9501-100BF
D100X075BR	9501-100BM
D100X075NF	D100X100BR
D100X075NM	D100X100NF
D100X075S	D100X100NM
	D100X100S

Accessories

DI00X100IN

1" (25,4 mm) Isolation Valve

DSNDL

Reclaimed water solenoid



Reading model #'s:
 BF= BSP female fitting
 BM= BSP male fitting
 BR= Barb fitting
 NF= NPT female fitting
 NM= NPT male fitting
 S= Slip fitting

SPECIFICATIONS

FLOW RANGE:

Less than 1 to 30 gpm (0,23 – 6,81 m³/hr)

MINIMUM PRESSURE:

10 psi (0,7 bar)

MAXIMUM PRESSURE:

150 psi (10,3 bar)

INPUT:

24V AC

INRUSH CURRENT:

0.50 amps or less

HOLDING CURRENT:

0.23 amps

DIMENSIONS (L x W x H)

4 1/2" (10,8 cm) x 3 1/8" (9,8 cm) x 5 1/8" (13 cm)

PER BOX:

20

FEATURES

- Directly compatible with SoloRain[®] series of battery-operated actuators
- Body and bonnet made of glass reinforced nylon to prevent leaks and breaks
- Manual internal bleed keeps valve box dry
- Bayonet-mounted bonnet with captured diaphragm for quick and easy servicing
- Fabric reinforced diaphragm for increased durability
- Easy-to-use flow control permits manual adjustment of water flow rate (does not apply to model DI00GUN)
- One-piece fully encapsulated glass filled nylon solenoid with a stainless steel plunger
- Plunger is captured with removable retainer for easy cleaning
- High-grade PVC unions located on the inlet and outlet allow maximum versatility of pipe size (3/4" (19,05 mm) and/or 1" (25,4 mm) and numerous combinations. Installation and removal of the valve is a breeze!

DI00-075 SERIES (3/4" (19,05 mm) FITTINGS)

Flow GPM	Pressure Loss PSI	Flow L/min	Pressure Loss kPa	Flow m ³ /hr	Pressure Loss BAR
1	2.5	3.8	17	0.23	0.17
5	2.7	18.9	18.6	1.14	0.18
10	3.7	37.9	25.5	2.27	0.25
15	4.5	56.8	31	3.41	0.30
20	5.0	75.7	34.5	4.54	0.34

DI00-100 SERIES (1" (25,4 mm) FITTINGS)

Flow GPM	Pressure Loss PSI	Flow L/min	Pressure Loss kPa	Flow m ³ /hr	Pressure Loss BAR
1	3.0	3.8	20.7	0.23	0.20
5	2.7	18.9	18.6	1.14	0.18
10	2.5	37.9	17.3	2.27	0.17
15	2.5	56.8	17.3	3.41	0.17
20	3.5	75.7	24.0	4.54	0.24
25	4.5	94.6	31.0	5.68	0.31
30	6.5	113.6	44.8	6.81	0.44

SPECIFICATIONS

FLOW RANGE:

20-200 gpm (4,54 – 45,40 m³/hr)

MINIMUM PRESSURE:

15 psi (1,03 bar)

MAXIMUM PRESSURE:

200 psi (13,8 bar)

INPUT:

24V AC

INRUSH CURRENT:

0.50 amps or less

HOLDING CURRENT:

0.23 amps

DIMENSIONS (L x W x H)

7 7/8" (28,3 cm) x 5 1/2" (14 cm) x 8" (20,3 cm)
(globe)

Bodies with fittings installed:

11 1/8" (20 cm) x 5 1/2" (14 cm) x 5" (12,7 cm)
(globe)

PER BOX:

4 (valve bodies)

16 (fittings)

4 (isolation valves)



Reading model #'s:
N=NPT threading;
S= Slip;
B= BSP threading;
I= Isolation Valve

MODELS

D200GUN

Heavy duty union valve

1 1/2" Fittings

(38,1 mm)
D200X150N
D200X150S

2" Fittings

(50,8 mm)
D200X200N
D200X200S

Accessories

D200X150IN

1 1/2" isolation valve

D200X200IN

2" isolation valve

DSNDL

Reclaimed water solenoid

FEATURES

- Manual internal bleed keeps valve box dry
- Flow Control, standard on all valves, allow adjustment of water flow when needed
- Eight stainless steel 1/2" (12,7 mm) nuts grip into bonnet for extreme and fluctuating climatic conditions
- One-piece fully encapsulated glass filled nylon solenoid with a stainless steel plunger
- Plunger is captured with removable retainer for easy cleaning
- One-piece fabric reinforced diaphragm for increased durability
- Glass-filled nylon body with eight molded in brass studs, a stainless steel metering rod and high-grade PVC bonnet for heavy-duty applications up to 200 psi (13,8 bar)

- High-grade PVC unions located on the inlet and outlet allow maximum versatility of pipe size (1 1/2" (38,1 mm) and/or 2" (50,8 mm) and fitting combinations (slip and/or threaded). Installation and removal of the valve is a breeze!
- Directly compatible with SoloRain® series of battery-operated actuators

PRESSURE LOSS

Flow (GPM)	D100 1 1/2" Globe (PSI)	D100 2" Globe (PSI)	Flow (L/min)	D100 1 1/2" Globe (Kpa)	D100 2" Globe (Kpa)	Flow (m ³ /hr)	D100 1 1/2" Globe (BARS)	D100 2" Globe (BARS)
20	3.0	—	75.7	20.7	—	4.54	.20	—
30	3.5	—	113.5	24.2	—	6.81	.24	—
40	3.7	—	151.4	25.5	—	9.08	.25	—
50	3.9	2.9	189.3	26.9	20.1	11.35	.27	.20
60	4.0	3.0	227.1	27.6	20.7	13.62	.28	.21
80	5.0	3.5	302.8	34.5	24.2	18.16	.34	.24
100	6.0	4.2	378.5	41.4	28.9	22.70	.41	.29
120	8.0	6.5	454.2	55.2	44.9	27.40	.55	.45
140	10.0	8.2	529.9	69.0	56.6	31.78	.69	.56
160	—	11.0	605.6	—	75.9	36.32	—	.75
180	—	11.5	681.3	—	79.3	40.86	—	.79
200	—	16.5	757.0	—	113.8	45.40	—	1.14

MODELS

D150GN*, **D150GB***

1½" (38,1 mm) Globe or Angle Valve

D200GN*, **D200GB***

2" (50,8 mm) Globe or Angle Valve

*GN = NPT Conventional

*GB = BSP Conventional



Accessories

DSNDL

Reclaimed water solenoid

FEATURES

- Manual internal bleed is easy to operate – just twist the solenoid
- Flow Control, standard on all valves, allows adjustment of water flow when needed
- One-piece fully encapsulated glass-filled nylon solenoid with a stainless steel plunger. Plunger is captured with removable retainer for easy cleaning
- Manual bleed by rotating solenoid approximately ¾ of a turn counter clockwise
- Eight stainless steel ½" (12,7 mm) nuts grip into bonnet for extreme and fluctuating climatic conditions
- One-piece fabric reinforced diaphragm for increased durability
- 200 psi (13,8 bar) rated valve for heavy-duty applications
- Glass-filled nylon body with eight molded in brass studs, a stainless steel metering rod and high-grade PVC bonnet
- Directly compatible with SoloRain[®] series of battery-operated actuators

SPECIFICATIONS

FLOW RANGE:

9515: 15-150 gpm (3,40 – 34,07 m³/hr)

9520: 15-200 gpm (3,40 – 45,42 m³/hr)

MINIMUM PRESSURE:

15 psi (1,03 bar)

MAXIMUM PRESSURE:

200 psi (13,8 bar)

INPUT:

24V AC

INRUSH CURRENT:

0.50 amps or less

HOLDING CURRENT:

0.23 amps

DIMENSIONS (L x W x H)

6¾" (17,1 cm) x 5½" (14 cm) x 8" (20,3 cm)

(9515 with plug)

6¾" (17,1 cm) x 5½" (14 cm) x 8½" (21,6 cm)

(9520)

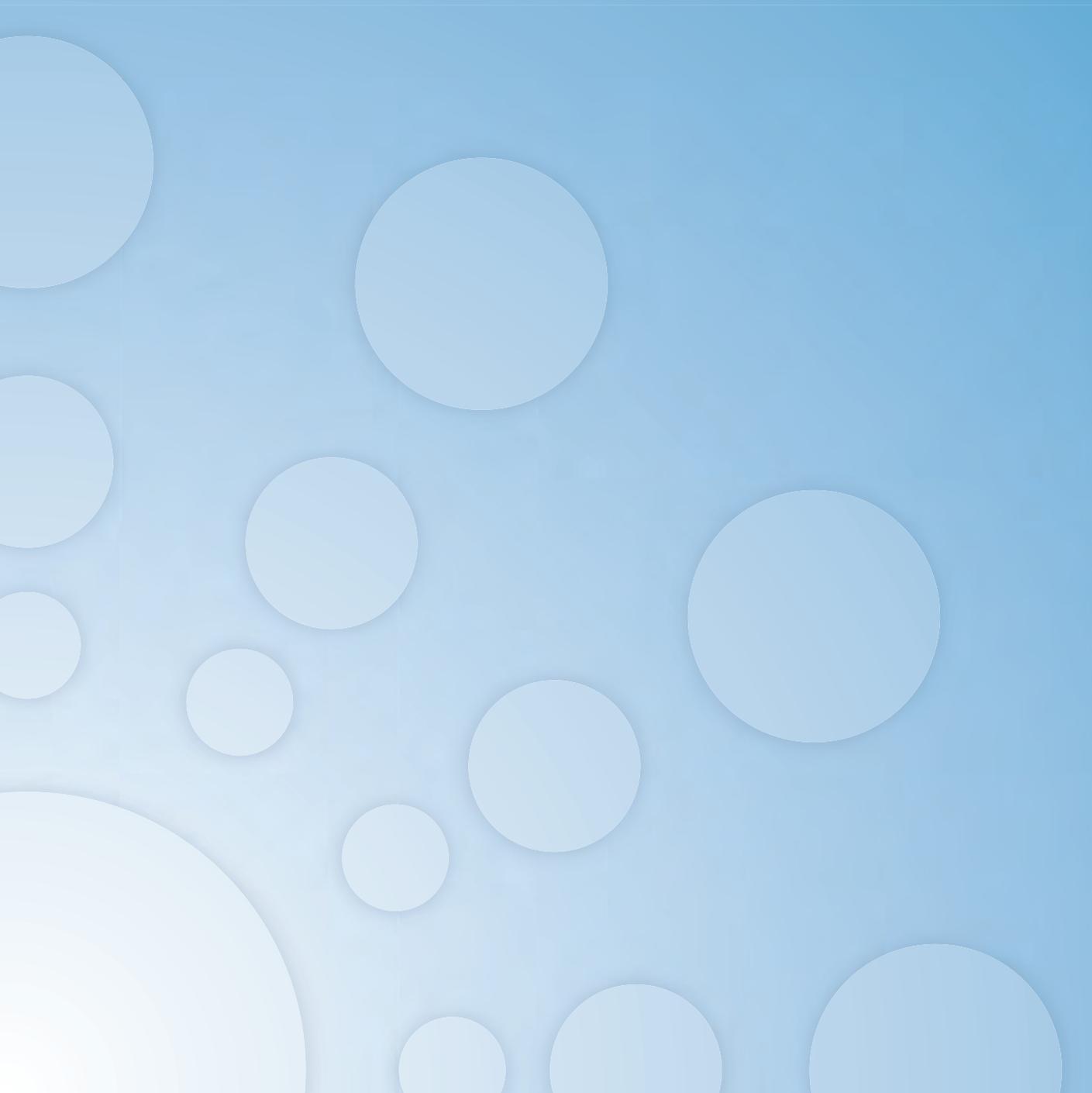
PER BOX:

4

PRESSURE LOSS

Flow (GPM)	D150GN 1½" Globe	D150GN 1½" Angle	D200GN 2" Globe	D200GN 2" Angle	Flow (m ³ /hr)	D150GB 1½" Globe	D150GB 1½" Angle	D200GB 2" Globe	D200GB 2" Angle
15	3.0	2.8	–	–	3.40	20.7	19.3	–	–
20	3.0	2.8	–	–	4.54	20.7	19.3	–	–
30	3.5	3.0	–	–	6.81	24.2	20.7	–	–
40	3.7	3.2	–	–	9.08	25.5	22.0	–	–
50	3.9	3.4	2.9	1.9	11.36	26.9	23.5	20.1	13.1
60	4.0	3.7	3.0	2.3	13.63	27.6	25.5	20.7	15.8
80	5.0	4.1	3.5	2.5	18.17	34.5	28.3	24.2	17.2
100	6.0	4.5	4.2	3.1	22.71	41.4	31.1	28.9	21.3
120	8.0	6.0	6.5	3.8	27.25	55.2	41.4	44.9	26.2
140	10.0	7.0	8.2	4.9	31.79	69.0	48.3	56.6	33.8
160	–	–	11.0	5.5	36.34	–	–	75.9	37.9
180	–	–	11.5	6.8	40.80	–	–	79.3	46.9
200	–	–	16.5	8.2	45.42	–	–	113.8	56.5





QUICK COUPLING VALVES

APPLICATIONS

1" QCV

GREENS



RECLAIMED WATER



1" INLET (25,4 mm)



PRODUCT OVERVIEW



1" QCV

- 1" (25,4 mm) quick coupling valves with rubber covers.
- Available with locking covers.
- Reclaimed water covers.
- Featuring acme threads for convenient flow control.

FEATURES

Signature quick coupling valves and keys use Acme® threads for slow and steady flow control instead of immediate on/off. All models feature rubber cover. Optional locking cover available. Optional lavender rubber cover identifies reclaimed water site – molded in “RECLAIMED WATER - DO NOT DRINK”: in English and Spanish.



Acme® threads provide convenient flow control



Swivel ells
DHS075X075
 3/4" (19,05 mm) FPT x 3/4" (19,05 mm) GHT
DHS100X075
 1" (25,4 mm) FPT x 3/4" (19,05 mm) GHT
DHS100X100
 1" (25,4 mm) FPT x 1" (25,4 mm) GHT

MODELS

Quick Coupling Keys

DQCVKEY075
 Quick Coupling Key 3/4"

DQCKKEY100
 Quick Coupling Key 1"

Quick Coupling Valves 1"

DQCVN
 Quick Coupling Valve with Yellow Non-Locking Cover 1" NPT (25,4 mm)

DQCVB
 Quick Coupling Valve with Yellow Non-Locking Cover 1" BSP (25,4 mm)

DQCVKLB
 Quick Coupling Valve with Yellow Locking Cover 1" NPT (25,4 mm)

DQCVKB
 Quick Coupling Valve with Yellow Locking Cover 1" BSP (25,4 mm)

DQCVLN
 Quick Coupling Valve with Lavender Non-Locking Cover 1" NPT (25,4 mm)

DQCVLB
 Quick Coupling Valve with Lavender Non-Locking Cover 1" BSP (25,4 mm)

DQCVKLN
 Quick Coupling Valve with Lavender Locking Cover 1" NPT (25,4 mm)

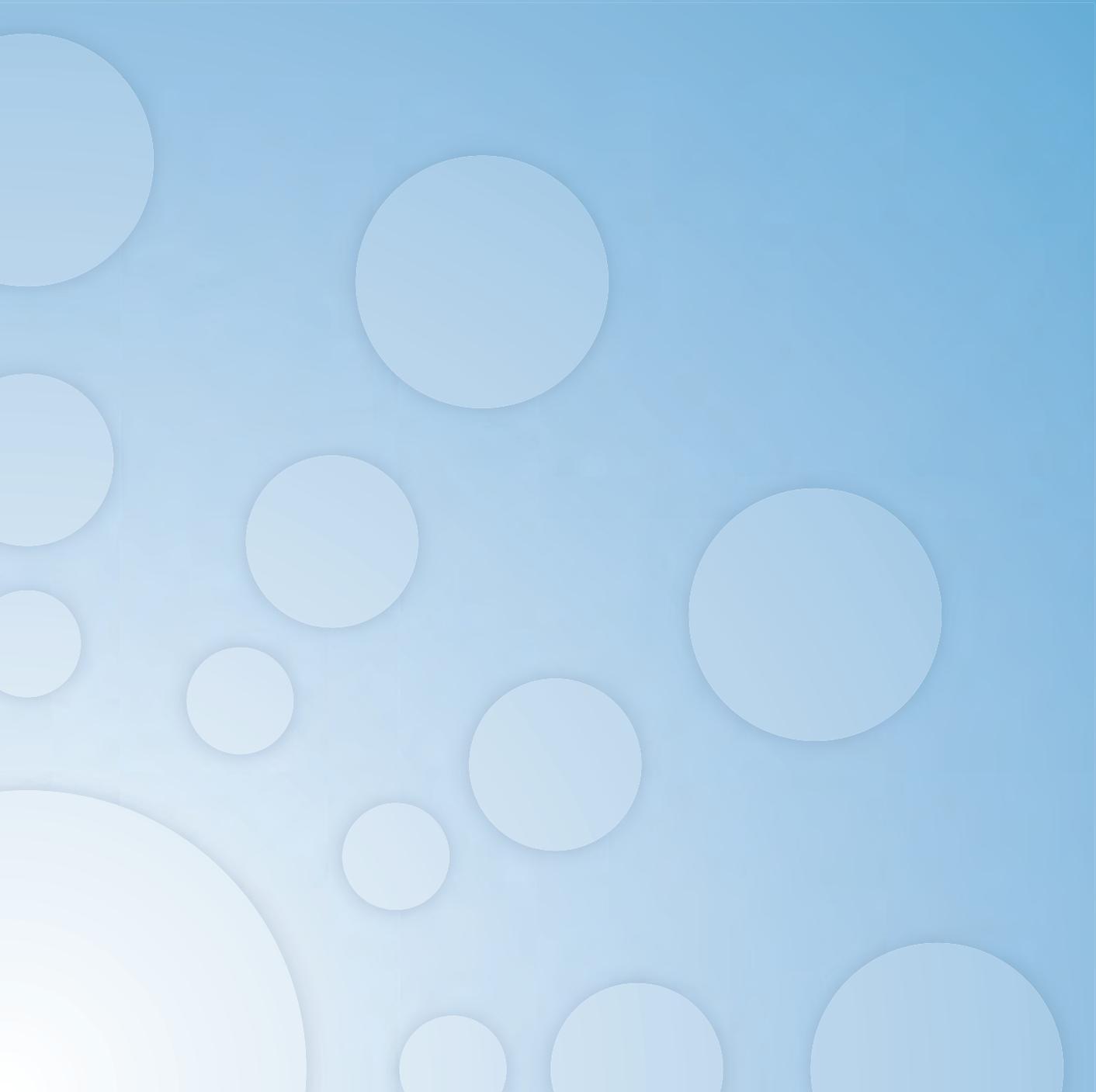
DQCVKLB
 Quick Coupling Valve with Lavender Locking Cover 1" BSP (25,4 mm)

QUICK COUPLING KEYS

Model	For Valve Models	ENGLISH			METRIC		
		Thread Size		Height	Thread Size		Height
		MALE	FEMALE		MALE	FEMALE	
DQCVKEY075	All models	3/4"	1/2"	5 1/4"	25,4 mm	19,05 mm	13,3 cm
DQCKKEY100	All models	1"	3/4"	5 1/4"	19,05 mm	12,7 mm	13,3 cm

QUICK COUPLING VALVES

Quick Coupler Model	Rubber Cover	Locking Cover	Warning Cover	ENGLISH			METRIC		
				Max Capacity GPM	Bottom Pipe Thread	Overall Height	Max Capacity l/m	Bottom Pipe Thread	Overall Height
DQCVN & B	•			20	1"	3 3/4"	75,7	25,4mm	9,5 cm
DQCVKLB & B	•	•		20	1"	3 3/4"	75,7	25,4mm	9,5 cm
DQCVLN & B	•		•	20	1"	3 3/4"	75,7	25,4mm	9,5 cm
DQCVKLN & B	•	•	•	20	1"	3 3/4"	75,7	25,4mm	9,5 cm



HOSE END

APPLICATIONS	HOT SHOT™	COOL SHOT™	FAN SHOT™	WETTING AGENT™	THE GUZZLER™	HOSE HEAD™
HOT SPOTS	✓	✓	✓	✓	✓	✓
GROUND COVER	✓	✓	✓	✓	✓	✓
GREENS	✓	✓	✓	✓	✓	✓
RECLAIMED WATER	✓	✓	✓	✓	✓	✓

PRODUCT OVERVIEW

Hot Shot™



- Available in both ¾" and 1" hose thread sizes
- The multi-pattern nozzle is great for jet cleaning equipment to soaking delicate plant material
- Heavy duty aluminum construction
- Lavender nozzles available for non-potable water applications

Cool Shot™



- Available in both ¾" and 1" hose thread sizes
- Provides heavy shower for soaking or heavy irrigating
- Cool Shot Plus includes regulator with on – off control
- Heavy duty aluminum or plastic version available
- Lavender nozzles available for non-potable water applications

Fan Shot™



- Available in both ¾" and 1" hose thread sizes
- Fan Shot Plus includes regulator with on – off control
- Economical High impact plastic construction
- Multiple nozzles available for various pressures

- Perfect for applying wetting agents or fertilizers
- Available in both ¾" and 1" hose thread sizes
- Can be installed at the beginning or end of your hose

- Available with the Cool Shot nozzle
- Economical High impact plastic construction

Wetting Agent Applicator



- Turns many sprinkler heads into a hose bib with a 360° swivel
- Includes both ¾" and 1" hose thread fittings
- Adapts from Hunter G60, G70 & G90
- Adapts from Rain Bird eagle 700 & 900 series

- Adapts from Toro 630, 680, 750, 780, 850, & 880 series
- Adapts from John Deere D50 & D70 series
- Adapts from Signature 280 Series

Hose Head™



MODELS

DNO75HSM

HotShot™ Multi-Pattern Hose Nozzle
3/4" Hose Thread

DNO75HSMP

HotShot™ Multi-Pattern Hose Nozzle
3/4" Hose Thread (Lavender)

DNI100HSM

HotShot™ Multi-Pattern Hose Nozzle
1" Hose Thread

DNI100HSMP

HotShot™ Multi-Pattern Nozzle
1" Hose Thread (Lavender)

DNO75CS

CoolShot™ Shower-Pattern Hose Nozzle
3/4" Hose Thread

DNO75CSL

CoolShot™ Shower-Pattern Hose Nozzle
3/4" Hose Thread (Lavender)

DNI100CS

CoolShot™ Shower-Pattern Hose Nozzle
1" Hose Thread

DNI100CSL

CoolShot™ Shower-Pattern Hose Nozzle
1" Hose Thread (Lavender)

DNO75CSP

CoolShot™ Plus Shower-Pattern Hose Nozzle
3/4" Hose Thread

DNO75CSPL

CoolShot™ Plus Shower-Pattern Hose Nozzle
3/4" Hose Thread (Lavender)

DNI100CSP

CoolShot™ Plus Shower-Pattern Hose Nozzle
1" Hose Thread

DNI100CSPL

CoolShot™ Plus Shower-Pattern Hose Nozzle
1" Hose Thread (Lavender)

DNO75CSPE

CoolShot™ Plus Economy Shower-Pattern
Hose Nozzle, 3/4" Hose Thread

DNI100CSPE

CoolShot™ Plus Economy Shower-Pattern
Hose Nozzle, 1" Hose Thread (Lavender)

FEATURES



Hot Shot™ with Regulator Multi Pattern Nozzle

If you could only have one nozzle, this would be it. This heavy duty Hot Shot™ sprays hot spots, jet cleans equipment and soaks even the most delicate plant material. The Hot Shot™ is available with a lavender nozzle for use in non-potable applications. The hot shot is available in both 3/4" and 1" hose threads.



Cool Shot™ and Cool Shot™ Plus Shower Head Nozzles

The Cool Shot™ families of nozzles are available in three varieties, the standard Cool Shot™, the Cool Shot™ Plus, and the Cool Shot™ Plus Economy. The Cool Shot's™ shower pattern is perfect for soaking or heavy watering of all types of plant material. The Cool Shot™ Plus with regulator includes on – off flow control and the Cool Shot™ Plus Economy gives you all the same great features while taking advantage of the cost saving plastic construction. All Cool Shot™ nozzles are available in both 3/4" and 1" sizes. All Cool Shot™ nozzles can be ordered with the lavender non-potable water nozzles preinstalled.

FEATURES

Fan Shot™ and Fan Shot™ Plus

The Fan Shot is a slotted fan spray nozzle designed for various flows both with and without regulators. The Fan Shot is available in 3/4" and 1" models. All of the color coded nozzles can be purchased on regulated or non-regulated bodies, individually or in a combo kit. Blue = 30 gpm, Red = 20 gpm, Yellow = 10 gpm.

Wetting Agent Applicator

Apply your costly wetting agents or fertilizers evenly and efficiently. This on-off, variable flow control unit connects easily to the beginning or end of your 3/4" and 1" hose. It's also available with a factory installed Cool Shot Nozzle.

Hose Head All-In-One Hose Adapter & Swivel

The Hose Head adaptor is a quick and easy way to convert a standard Rotor into a 360° swiveling hose bib. The Hose Head adaptor will allow you to connect a standard 1" or 3/4" hose to many Rain Bird, Hunter, Toro and John Deere rotors. Simply remove the internal assembly, install the Hose Head and you're set. Each Hose head comes with both 3/4" and 1" fittings. The Hose Head will work with: Rain Bird Eagle 700 900 series, Hunter G60 G70 G90 G800 series, Toro 630 650 660 680 730 750 760 780 830 850 860 880 series, John Deere D50 D55 D70 D75 series and Signature 280 series.

**D100HA**

Valve-in-Head Hose Adapter & Swivel for 286/287 Series & Toro 650, 680, 750, 780, 850, 880

D150HA

Valve-in-Head Hose Adapter & Swivel for 288/289 Series & Toro 650, 680, 750, 780, 850, 880

D70HHA

Valve-in-Head Hose Adapter & Swivel for Hunter G60/70 Series

D90HHA

Valve-in-Head Hose Adapter & Swivel for Hunter G90 Series

D800HHA

Valve-in-Head Hose Adapter & Swivel for Hunter G800 Series

D700RHA

Valve-in-Head Hose Adapter & Swivel for Eagle 700/750 Series

D900RHA

Valve-in-Head Hose Adapter & Swivel for Eagle 900/950 Series

**D075APL**

Wetting Agent Applicator
3/4" Hose inlet — 3/4" outlet

D100APL

Wetting Agent Applicator
1" Hose inlet — 1" outlet

D075APLCS

Wetting Agent Applicator
3/4" Hose inlet — 3/4" outlet with CoolShot™ Nozzle

D100APLCS

Wetting Agent Applicator
1" Hose inlet — 1" outlet with CoolShot™ Nozzle

DN100G

The Guzzler™ High Suction Hand Pump

DN075FS10

FanShot™ Nozzle, 10 GPM
Yellow Nozzle, 3/4" Hose Thread

DN075FS20

FanShot™ Nozzle, 20 GPM
Red Nozzle, 3/4" Hose Thread

DN075FS30

FanShot™ Nozzle, 30 GPM
Blue Nozzle, 3/4" Hose Thread

DN100FS10

FanShot™ Nozzle, 10 GPM
Yellow Nozzle, 1" Hose Thread

DN100FS20

FanShot™ Nozzle, 20 GPM
Red Nozzle, 1" Hose Thread

DN100FS30

FanShot™ Nozzle, 30 GPM
Blue Nozzle, 1" Hose Thread

DN100FSP10

FanShot™ Plus with 10 GPM
Yellow Nozzle, 1" Hose Thread

DN100FSP20

FanShot™ Plus with 20 GPM
Red Nozzle, 1" Hose Thread

DN100FSP30

FanShot™ Plus with 30 GPM
Blue Nozzle, 1" Hose Thread



SENSORS

PRODUCT OVERVIEW

ACRSW



- Easily installs on any Aurora or AuroraLT satellite.
- Includes 25 ft (7,6 m) of 20 AWG two-conductor wire.
- Maintenance-free patented sensing mechanism.
- Automatically shuts off and starts irrigation based on local parameters.

ACASI ACANSC



- Easily installs on any Aurora or AuroraLT satellite.
- Includes 10 ft (3 m) of 20 AWG two-conductor wire.
- Maintenance-free patented sensing mechanism.
- Automatically shuts off and starts irrigation based on local parameters.
- Tough polycarbonate construction for direct burial.
- 4-20 mA Sensing board required (sold separately).

ACNS1 ACNS2 ACNS3 ACNS4 ACNS5 ACNS6 ACNS7



- Easily installs on any Aurora or AuroraLT satellite (Firmware v6.00+).
- Includes 10 ft (3 m) of 20 AWG two-conductor wire.
- Maintenance-free patented sensing mechanism.
- Automatically shuts off and starts irrigation based on local parameters.
- Tough polycarbonate construction for direct burial.
- Variety of sensing programming parameters

FEATURES

- Unit ready for bracket mount or ½" (12,7 mm) conduit/pipe thread mount at bottom
- Adjusts easily from ⅛" (3,2 mm) to 1" (25,4 mm) rainfall
- Compatible with most controller brands (Ready for normally-closed or normally-open hookup)
- Supplied with 25 (7,6 m) ft of hookup wire
- Saves unneeded watering
- Designed to be used with low voltage irrigation systems only

SPECIFICATIONS



MODELS

ACRSW
Rain-Trip®

- Provides linear measure of soil moisture content
- Works on any Constellation® firmware



ACASI
Soil Moisture Sensor
Analog Output

ACANSC
Sensor Card
(required for 4-20mA linear sensors)
(not shown)

- Can broadcast up to four outputs (soil moisture, EC, soil temperature and wetted front) across the network and trigger any program on any controller in the network to either start or stop based on adjustable targets set in a program for any of the four sensor outputs
- The firmware allows for the selection of any one output or a combination of the four outputs in one sensor
- The firmware can be upgraded from the controller without having to dig up the sensor
- Each controller can have a maximum of 2 1,000 ft runs of 18 AWG 4 conductor / 2 pair wire connecting up to 15 sensors
- Up to 999 controllers and/or sensors on one network
- The PRO-sense design makes it easy to install with little or no soil or root disruption



ACNS1
Soil Moisture Sensor

ACNS2
Soil EC (Electrical Conductivity) Sensor

ACNS3
Soil Temperature Sensor

ACNS4
Soil Wetted Front Sensor

ACNS5
Soil Moisture, Soil EC

ACNS6
Soil Moisture, EC, Temperature

ACNS7
Soil Moisture, EC, Temp & Wetted Front Sensor

NOTE:
Constellation Firmware v6.00 or higher required

SIGNATURE CONTROL SYSTEMS, INC LIMITED WARRANTY AND DISCLAIMER: GOLF PRODUCTS

- 1) Signature Control Systems, Inc. ["SCS"] warrants to the owner (the "Buyer") that all new products, as featured in the current Signature Golf Catalog at date of purchase will be free from original defects in materials and workmanship for the time periods described below, provided they are used for approved purposes under manufacturer's recommended specifications.
- 2) This warranty is given expressly and in place of all other expressed or implied warranties of merchantability and fitness for a particular purpose. This is the only warranty made by Signature Control Systems, Inc for Turf products. This warranty gives you specific legal rights and you may have other rights which vary from state to state.
- 3) During the warranty period, SCS will repair or replace, at SCS's sole discretion, any part to be found defective with prior written authorization. Buyers remedy is limited solely to the replacement or repair of the defective parts.
- 4) This warranty does not apply (i) to Acts of God including without limitation, lightning and flooding; or (ii) to products not manufactured by SCS when used in conjunction with SCS products; or (iii) where equipment is used, or installation is performed in any manner contrary to SCS's specifications and instructions, nor where equipment is altered or modified.
- 5) **Signature Control Systems, Inc. reserves the right to redesign, alter or modify its products at anytime and does not, and will not, assume any liability with respect to obsolete inventory arising there from.**
- 6) Neither SCS or its affiliates are liable for any indirect, incidental or consequential damages in connection with the use of equipment, including but not limited to: vegetation loss, the cost of substitute equipment or services required during periods of malfunction or resulting non-use, property damage or personal injury resulting from installer's actions, whether negligent or otherwise.
- 7) No agent or representative of SCS, nor of any distributor, retailer, lessor or installer of the system, has any express or implied authority to make any representation, promise, guarantee or warranty not stated here. SCS disclaims any warranty of merchantability or fitness for a particular purpose, or any other warranties that extend beyond those described here.
- 8) Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. All implied warranties, including those of merchantability and fitness for use, are limited to the duration of this express warranty.
- 9) Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- 10) **STANDARD PRODUCTS LIMITED 1-YEAR WARRANTY:** All SCS products are covered by this warranty for a period of one year from the date of supply except as noted below:
- 11) **TECHNICAL ADVICE:** SCS warranties as hereinabove set forth shall not be enlarged, diminished or affected by, and no obligation or liability shall arise or grow out of, SCS rendering of technical advice or service in connection with Buyer's order or the products furnished.
- 12) **QUESTIONS:** If you have any questions concerning the warranty or its application, please email your question to info@scsmail.com or write to:
Signature Control Systems, Inc
18 Goodyear Suite 110
Irvine, California 92618
U.S.A.
Attention: Customer Service.
- 13) **CLAIMED DEFECTIVE MERCHANDISE POLICY.** Products returned to the retailer or distributor and claimed defective must be inspected by an authorized SCS representative to determine warranty compliance. If approval is granted, products will be repaired or replaced, or a credit memorandum covering the net purchase price will be issued.
- 14) **In the event of a defect:** If a defect arises in a Signature product or part within the warranty period, you should contact your Signature retailer, distributor, or Signature Control Systems, Inc. at www.signaturecontrolsystems.com or one of the following locations:

WORLD HEADQUARTERS

Signature Control Systems, Inc.
18 Goodyear ■ Suite 110
Irvine ■ California ■ 92618 ■ USA
Tel: 949.580.3640 Fax: 949.580.3645
USA Toll Free: 866.4SIGNATURE

MANUFACTURING DIVISION

Signature Control Systems, Inc.
8800 N.Allen Rd.
Peoria ■ Illinois ■ 61615 ■ USA
Tel: 949.580.3640 Fax: 949.580.3645
USA Toll Free: 866.4SIGNATURE

EUROPE, MIDDLE EAST AND AFRICA

SCS Europe (Paris)
5 rue de la Vallée Yart
78640 Saint Germain de la Grange
France
Tel: +33.13.489.9056
Fax: +33.13.489.6025

- 15) **SERVICE TIME-LINE:** Signature may, at its option, require that product or part be returned to a Signature service point or your retailer or distributor. Signature will determine whether the claimed defect is covered by the warranty. If covered, the product will be repaired or replaced. Please allow 4 to 6 weeks for completion of repairs or replacement and return of the product or part. If a product or part is replaced, the replacement is warranted only for the remainder of the original product or part warranty period.



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