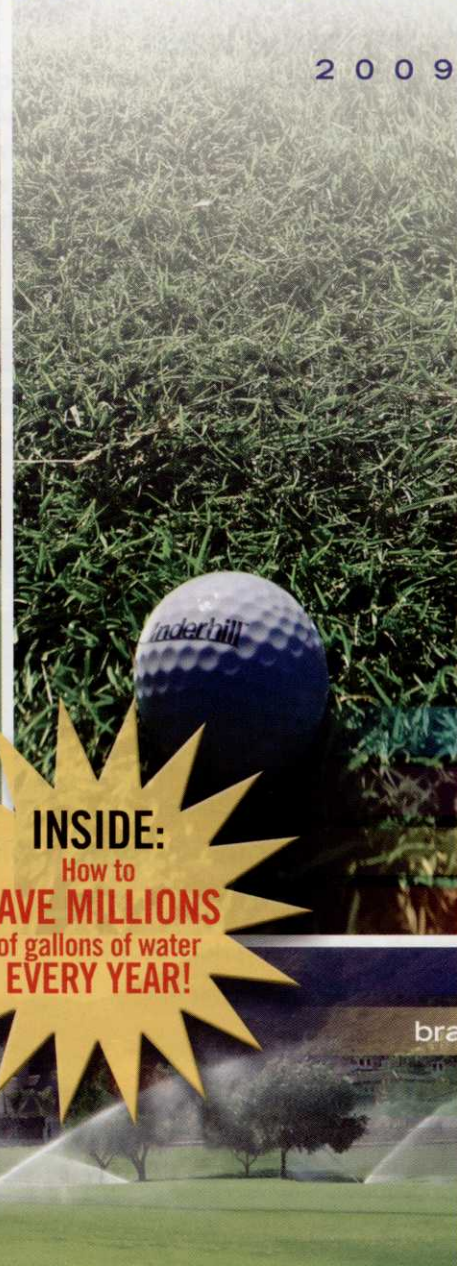




Underhill™

GOLF WATERING PRODUCTS

2009



INSIDE:
How to
SAVE MILLIONS
of gallons of water
EVERY YEAR!

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Underhill™

An industry leader in innovative watering products for golf courses all over the world, Underhill brings 30 years of know-how in developing our inventory of "Products that work...smart.™"

golf sprinkler nozzles

Profile™

SOLID METAL GOLF SPRINKLER NOZZLES

Upgrade your Toro® or Rain Bird® sprinklers with our perfect-fit Profile™ nozzles and you will see improved results immediately. Water distribution so uniform that you can cut back watering times to **save millions** of gallons of water **every year**. Over time, since Profile solid metal nozzles resist wear and clogging, you'll enjoy these superior results for the life of your sprinkler...never needing to change out nozzles again.

Call us to request our **free video** on Profile solid metal golf sprinkler nozzles! Or watch it online at www.underhill.us



- Cut watering times significantly
- No more worn out / clogged plastic nozzles
- Eliminate wet and dry spots
- Improve course playability
- **Stop wasting water**

Test your sprinkler uniformity with CatchCan Pro™. Easy-to-use and highly accurate measuring system.

See Page 4

"We've had Profile nozzles in for about two years now with outstanding results and excellent water savings. We're past break-even on ROI."

"...consistently uniform distribution. The nozzles perform the same today as when we first installed them."



Profile nozzles for **Toro®**



730 SERIES

Part #	Nozzle Color # range / spreader	Toro Nozzle #s
T730-3313	Brown 33 / Gray 13	33
T730-3413	Blue 34 / Gray 13	34
T730-3515	Violet 35 / Red 15	---
T730-3515L (50 psi)	Green 35 / Red 15*	35
T730-3615	Red 36 / Red 15*	36
T730-3617	Red 36 / Lavender 17	



* For square spacing, specify #17 (lavender) nozzle with the #35 and #36 range nozzles

760 and 860 SERIES

Part Circle: Midrange/Close-in Nozzle Set

Part #	Nozzle Color: midrange / close-in
T760-GY	Gray / Yellow
T860-Gy	Gray / Yellow

830 and 834S SERIES

Full Circle: Midrange/Close-in Nozzle Set

Part #	Nozzle Color: midrange / close-in	Toro Series
T830-GY	Gray / Yellow	830
T834-GY	Gray / Yellow	834S

835S SERIES

Full Circle: Midrange/Close-in Nozzle Set

Part #	Nozzle Color: midrange / close-in
T835S-WP	White / Plug

630 SERIES CALL FOR AVAILABILITY

670 SERIES

Full Circle: Rear Nozzles

Part #	Nozzle Color: midrange / close-in
T670-BY	Black / Yellow

690 SERIES

Full Circle: Rear Nozzle

Part #	Nozzle Color: spreader
T690-G	Gray

750 SERIES

Full Circle: Front/Rear Nozzle Set

Part #	Nozzle Color # range / spreader	Toro Nozzle #s
T750-5617	Red 56 / Lavender 17	56
T750-5717	Gray 57 / Lavender 17	57

780 and 854S SERIES

Midrange/Close-in Nozzle Set

Part Circle (780) and Full Circle (854S)

Part #	Nozzle Color: midrange / close-in	Toro Series
T780-BY	Black / Yellow	780
T854-BY	Black / Yellow	854S

855S SERIES

Full Circle: Midrange/Close-in Nozzle Set

Part #	Nozzle Color: midrange / close-in
T855S-PP	Pink / Plug

650 SERIES CALL FOR AVAILABILITY



Profile nozzles for **Rain Bird®**

EAGLE 700 SERIES

Full Circle: Midrange/Close-in Nozzles

Part #	Nozzle Color midrange / close-in	Rain Bird Nozzle #s
R70028-RG	Blue / Gray	28
R70032-RG	Red / Gray	32
R7003640-GG	Blue / Gray	36/40 and larger

Our NEW low-angle 12° wind-fighting spreader nozzle delivers exceptional close-in uniformity for all Eagle 700 series sprinklers on either triangular or square spacing.

900 EAGLE SERIES

Full Circle: Close-in Nozzle

Part #	Nozzle Color
R900-M	Maroon

91 SERIES BRASS IMPACTS

Full Circle: Close-in Nozzle

Part #	Nozzle Color
R91-G	Gray

51 SERIES BRASS IMPACTS

Full Circle: Front/Rear Nozzles

Part #	Nozzle Color # range / spreader	Rain Bird Nozzle #s
R51-1411.5	White 14 / Gray 11.5	14 / 11.5
R51-1611.5	Blue 16 / Gray 11.5	16 / 11.5
R51-1811.5	Yellow 18 / Gray 11.5	18 / 11.5
R51-2011.5	Red 20 / Gray 11.5	20 / 11.5
R51-2213	Green 22 / Black 13	22 / 13
R51-2413	Black 24 / Black 13	24 / 13

All original equipment manufacturers, names and products presented in this publication are used for identification purposes only, and we are in no way implying that any of our products are original equipment parts. Toro® is a registered trademark of the Toro Company, Rain Bird® is a registered trademark of the Rain Bird Sprinkler Manufacturing Corporation.



CatchCan Pro™

SPRINKLER PERFORMANCE TESTING SYSTEM

Stop overwatering and save! Poorly performing sprinklers often go unnoticed as watering times are gradually increased to compensate. Catch them in the act - accurately measure sprinkler application rates with the Underhill™ CatchCan Pro™ system.



features

- Self standing, easily anchors into turf
- Tripod design works on slopes
- Measures sprinkler application in inches, centimeters and millimeters
- Unique design allows for shorter duration test
- Made of durable polypropylene engineered plastic
- Can be stacked for easy storage
- Each 10 pack kit comes with instructions.



ordering

Part # CCPK-10 CatchCan-Pro™ 10-pack
(includes directions)



HeadChecker™

NOZZLE DISCHARGE PRESSURE GAUGE

HeadChecker™ combines a solid brass Pitot tube and a liquid-filled 160 psi gauge to create a handy tool for measuring nozzle discharge pressure. Assuring correct pressures is essential to maintaining highly uniform irrigation systems. The 160 psi gauge can also be used separately to measure pipeline pressure.

ordering

Part # A-HCGPK HeadChecker™ 160 psi gauge and Pitot tube
Part # A-PG160L Pressure gauge only
Part # A-HCP Pitot tube only



TurfSpy™

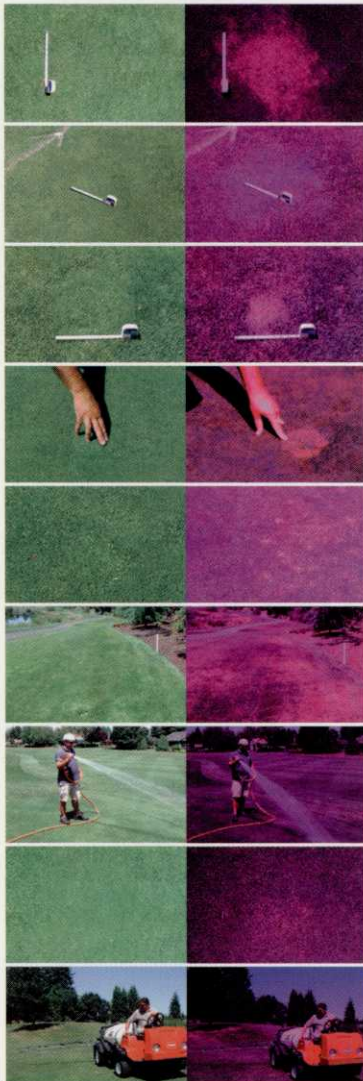
EARLY STRESS DETECTION GLASSES

Disease, drought and weed invasion are plant and turf killers. But by the time you see them it can be too late. TurfSpy™ glasses, with stress detection technology developed by NASA, lets you “see into the future” to identify problems 2-10 days before they are visible to your naked eye. Keep your turf and vegetation healthy BEFORE serious problems arise.



features

- Shatterproof/polycarbonate stress detection lens (ANSI approved safety lens)
- Wrap-around lens limits ambient light for optimal detection
- Sports frame with adjustable ear piece
- Lightweight case included



fusarium patch

pythium blight

yellow patch (rhizoctonia)

brown patch

anthracnose

get a jump on broken or poor-performing sprinklers

highly efficient spot watering saves time and labor costs

poa grass invasion identified BEFORE it takes over

superior weed location and spraying saves time and money



HOW IT WORKS

Dying vegetation absorbs and reflects sunlight differently than when its healthy. The earliest signals occur at the outer limits of the human visual spectrum, and are rendered invisible compared to the predominant middle wavelengths. TurfSpy™ filters the light in the center so that fringe spectra, which show early plant stress, become visible.



ordering

Part # NG655-01 TurfSpy™ Glasses and Deluxe Case



Magnum™

SOLID METAL HOSE NOZZLE

Underhill™ Magnum™ contains no plastic internal parts to break, stick or wear out. Our unique ratchet mechanism easily adjusts from gentle fan to powerful jet stream and prevents over-tightening damage. Precision-machined, incredibly smooth operation and outstanding distribution patterns make it ideal for high-demand areas like greens and tees. Magnum™ is also an excellent equipment wash-down nozzle.

features

- Built for 1" and 3/4" flow rates
- Fire hose quality nozzle feels great in your hands
- Ultra-durable construction withstands any abuse
- Solid metal internal - no plastic parts to break or wear out
- Beautiful, consistent spray patterns for life
- Ratchet mechanism prevents over-tightening damage
- Multi-pattern sprays - effortless control with hydraulic assist on/off



Magnum™ nozzle pictured with 1" brass adapter (sold separately on Page 7)



solid metal internal body

Won't stick...won't break

specifications

Materials: stainless steel, aluminum, TPR rubber

Flow: 37 GPM at 80 psi

Inlet: 3/4" hose thread (1" brass adapter available, see Page 7)



CoolPro™

Cool Without Over Watering - No Root Damage

A hot summer day can be murder on your greens. Use too much water and you risk damage to the roots. CoolPro™ is the first nozzle specifically designed for the single purpose of lightly misting the turf canopy to cool without over watering. And its 25 foot fogging pattern gets the job done quickly.

features

- 3/4" inlet (1" brass adapter available, see Page 7)
- Ergonomic handle/valve provides easy grip and variable on/off control.
- Durable solid metal design: zinc, aircraft aluminum and stainless steel.
- Patented Precision™ nozzle fogs at 70 psi to deliver a 25 ft. pattern with only 4-6 GPM

Perfect for tournament play, CoolPro™ puts down only enough water to cool the turf canopy. It prevents wilting while maintaining good ball speed. CoolPro is a great tool for protecting grass on hot days without damaging roots.

ordering

Part # NG450

MAGNUM™ Hose Nozzle

Part # HNC075

CoolPro™ Hose Nozzle

Precision™

PATTERNS SO REMARKABLE, NOZZLES SO GOOD... THEY'RE PATENTED.

It's hard to beat MAGNUM™ for all around versatility...When you have more precise watering needs, you simply cannot buy a better nozzle than the Underhill Precision™ series. These solid metal, fixed spray hose nozzles deliver millions of soft, uniform droplets to provide rapid yet surprisingly gentle water application over a huge range of flow rates. From watering fragile seed beds to drenching dry spots, Precision spray patterns are designed with ideal flow rates and droplet sizes to offer you the ultimate solution for every hand watering application.



Rainbow™

LOW FLOW RATE

LANDSCAPING, LIGHT WATERING

Ideal for watering greens, tees and seed beds. Excels at lower pressure flows. **15 GPM @ 80 psi.**



Rainmaker™

LOW TO MEDIUM FLOW

SYRINGE AND SPOT WATERING

Perfect for syringing and gentle watering of turf and landscape at lower pressures. **23 GPM @ 80 psi.**



Cloudburst™

MEDIUM TO HIGH FLOW

DRY SPOT SPECIALIST

High volume drenching, syringing, and application of wetting agent. Ideal flow rate for 3/4" and 1" hoses. **48 GPM @ 80 psi.**



Cyclone™

HIGH FLOW RATE

HEAVY WATERING, SOAKING

Powerful fan-shaped spray covers a HUGE area, and gets heavy watering jobs done quickly. Ideal flow rate for 1" hoses. **50+GPM @ 80 psi.**

GPM will vary with pressure at nozzle.

high-flow valves



HIGHEST FLOW VALVES AVAILABLE

COMPOSITE / STAINLESS STEEL

- 3/4" hose thread inlet/outlet
- oversized handle
- up to 55 GPM

SOLID BRASS

- 3/4" hose thread inlet/outlet
- up to 50 GPM

hose adapters / quick-connectors



ordering

Part # HN1500	Precision™ Rainbow™ Hose Nozzle
Part # HN2300	Precision™ Rainmaker™ Hose Nozzle
Part # HN4800	Precision™ Cloudburst™ Hose Nozzle
Part # HN5000	Precision™ Cyclone™ Hose Nozzle
Part # CV075H	High-Flow 3/4" Valve - Brass
Part # A-BV77FM	High-Flow 3/4" Valve - Composite/Steel
Part # A-BA107FM	1" FHT x 3/4" MHT Brass Hose Adapter
Part # A-BA107MF	1" MHT x 3/4" FHT Brass Hose Adapter
Part # A-BQ7M	3/4" Quick-Connect, male end
Part # A-BQ7F	3/4" Quick-Connect, female end
Part # HN075W	replacement washer, 3/4" hose

PelletPro™

APPLICATOR GUN FOR SOLID WETTING AGENT TABLETS

We outfitted our heavy-duty surfactant applicator with a high-flow composite/stainless steel valve and a Precision™ Cloudburst™ nozzle to produce the finest wetting agent gun available. The PelletPro™ accepts all wetting agent tablets and is designed to provide powerful, yet ultra-soft spray when watering or applying surfactants to tight, hydrophobic soils.

features

- 48 GPM capability gets the job done faster!
- Ultra Heavy-Duty - brass fittings, aircraft aluminum, stainless steel, and precision engineered glass-filled materials
- Patented Precision™ Cloudburst™ nozzle delivers large droplets in an outstanding fan pattern
- Pellet rotation (1 RPS) evenly dissolves/applies tablets



With the included 1" FHT x 3/4" MHT brass adapter, PelletPro™ works with both 3/4" and 1" hoses.

PelletPro™ rotates pellets at 1 revolution per second (RPS) to evenly dissolve/apply wetting agent

2 products in 1!

Remove the PelletPro™ bowl and you have a superb syringe nozzle combo: the patented, 48 GPM Precision™ Cloudburst™ with our high-flow, oversized handle valve.



PelletPro's bowl, also sold individually, works perfectly as a replacement in-line filter bowl for most spray rigs. Heavy-duty, transparent plastic shows fluids. (No more cracked bowls during winter storage!)

ordering

- | | |
|------------------|---------------------------|
| Part # A-PPWA50K | PelletPro™ Applicator Gun |
| Part # A-PPB | In-line Filter Bowl |
| Part # A-PPBG | Gasket |

LiquidPro™

APPLICATOR GUN FOR LIQUID WETTING AGENT

This popular "liquid" version of the PelletPro™ features the proven combination of our Precision™ Cloudburst™ nozzle and the high-flow composite/stainless steel valve. Adding a chemical-resistant, UV-protected, lightweight siphon/mixing system produces an applicator gun which can cover 1000 square feet in less than a minute. Now, with unmatched speed and uniformity, you can virtually "paint" your turf with liquid wetting agent, fertilizers, and micronutrients. And like the PelletPro, LiquidPro disassembles easily to create the Cloudburst™ High-Flow Valve syringe nozzle.



With the included 1" FHT x 3/4" MHT brass adapter, LiquidPro™ works with both 3/4" and 1" hoses.

features

- Patented Precision™ Cloudburst™ nozzle evenly distributes wetting agent ensuring uniform coverage. Made of aircraft aluminum and stainless steel.
- Lightweight, durable nylon construction weighs only 3 lbs., UV-protected and chemical resistant.
- High-density polybottle has full quart capacity with easy-to-read measurements in fluid ounces and milliliters.
- Needle Valve Metering Chamber: Engineered venturi siphon mixes proper amount of wetting agent into the water flow.
- Pistol grip design with textured handle provides sure grip surface and reduces operator fatigue.
- Adjustable metering dial offers 10 additive settings including "Water Only."
- Metering dial can be removed to prevent tampering with a predetermined setting.



2 products in 1!

The Precision™ Cloudburst™ nozzle and high-flow valve can be quickly assembled to create a powerful, 48 GPM syringe nozzle.

a real time saver!

Bring plenty of wetting agent, fertilizers, and micronutrients to the field all at once with our 6-pack of polybottles.



ordering

- Part # A-LPWA50K - LiquidPro™ Applicator Gun
- Part # A-LPWAB-6 - 6-Pack of 32 oz. Polybottles and Carrier





RollerPro™

PORTABLE SPRINKLER BASE

The 22" wide stainless steel roller of RollerPro™ provides a stable field position for supplemental watering. Designed for years of hard use, it is ideal for watering dry spots and newly seeded areas.

features

- 22" wide stainless steel roller is weighted to prevent movement during use.
- Standard 1" FHT inlet x 1" female NPT outlet.
- 3/4" inlet and outlet adapters included.



RollerPro™ works with both 1" and 3/4" hoses and sprinklers using the included adapters. Sprinklers sold separately on page 12-13.

ordering

Part # A-RP221 RollerPro™



Order with brass swivel for extra savings!

HoseTap™

SOLID METAL HOSE ADAPTER

HoseTap™ gives you a hose connection anywhere you have a Toro® or Rain Bird® electric, valve-in-head sprinkler...ideal for fast connections when quick-couplers or hose bibs are not available. Aircraft aluminum body won't break or wear out like plastic, and is anodized with color for easy sprinkler manufacturer identification. Each HoseTap™ includes the precision metal disc, o-ring, and riser. Brass swivels sold separately (see Page 12).

ordering

- Part # HN-T100 - HoseTap™ for Toro® 1" inlet golf sprinklers
 - Part # HN-T150 - HoseTap™ for Toro® 1-1/2" inlet golf sprinklers
 - Part # HN-R125 - HoseTap™ for Rain Bird® Eagle 700 Series golf sprinklers
- Add "B" to part numbers to specify BSP thread.
Add "S" to part numbers to include 1" brass swivel for combination savings.

REPLACEMENT O-RINGS

- Part # OR-100 Fits Toro® 1" inlet and Rain Bird® Eagle 700 Series golf sprinklers / HoseTap
- Part # OR-T150 Fits Toro® 1-1/2" inlet golf sprinklers / HoseTap

