



Pinehurst No. 2 will host the men's and women's U.S. Opens in 2014.

PHOTO COURTESY: PINEHURST RESORT

back out. Farren gave Berry Hills his undivided attention as its superintendent. He and Kathy married. But while Farren enjoyed the job, he couldn't get Carolina and Pinehurst off his mind.

Farren and his new wife visited North Carolina often to see her family, and Farren made it a point to stop by Pinehurst to say hello to Kocher. He also kept in contact with him by phone.

And then in June 1985, nine months into his stint at Berry Hills, Farren's phone rang. It was Kocher calling with an offer — a great offer — the chance for Farren to become superintendent of Pinehurst's renowned No. 2 course. Farren didn't have to think about taking it. "I'm there," he told Kocher.

He and Kathy packed up and moved back to Pinehurst that July.

One of the first big projects Farren and Kocher teamed on was to rebuild the No. 2 course's greens and convert them from bermudagrass to bentgrass. The two worked well together.

Kocher, who had begun traveling frequently to other ClubCorp courses, announced he was going to hire an assistant to help him at Pinehurst. Farren expressed interest in the position and was named Kocher's assistant manager of grounds and golf course management while another superintendent was hired on No. 2.

Farren, Kocher and the courses' superintendents worked on several projects, including rebuilding greens and installing new irrigation systems on the courses.

Pinehurst's reputation improved immensely after ClubCorp took over the resort. In the coming years, Pinehurst No. 2 was awarded the 1999 U.S. Open. It has since hosted the 2005 U.S. Open.

Continued on page 49

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Even hard case weeds like crabgrass can't get away from Quincept® herbicide. With three active ingredients in rates that optimize performance, Quincept nails grass and broadleaf weeds that have escaped pre-emerge applications. See your distributor or www.nufarm.com/turf for more on how to put a stop to escapes.

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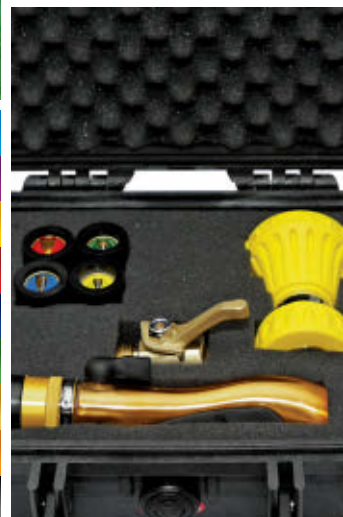
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W A T E R I N G P R O D U C T S 2 0 1 0



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An industry leader in innovative watering products all over the world, Underhill brings over 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 performance with AuditMaster™. Easy-to-use and highly accurate measuring kits.

See Page 4

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

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

UPGRADE
AND SAVE MILLIONS
of gallons of water EVERY YEAR!



Profile nozzles for **Toro®**

730 SERIES Full Circle: Front/Rear Nozzle Set

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



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.



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



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

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NEW! AuditMaster™

EXPERT SPRINKLER PERFORMANCE TESTING KITS

Poorly performing sprinklers waste a lot of water as watering times are increased to compensate. Accurately measuring sprinkler application rates with Underhill™ AuditMaster™ will maximize your customer's water savings.



AuditMaster Combo ST/LT Kit pictured, includes large CatchCanPro cups (blue) and CatchCanPro Mini cups (30 each).

AuditMaster ST Kit excludes the large CatchCanPro cups. This kit is ideal for **SMALL TURF** audits.

AuditMaster LT Kit excludes the CatchCanPro Mini cups, 3/4" Hose Bib and Gauge, or the Spray Head Tester w/Gauge. This kit is optimized for golf courses, sports fields and other **LARGE TURF** audits.

CatchCan Pro™

features

- Self standing - easily anchors into turf, even on slopes
- Measures sprinkler application in inches or centimeters
- 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

CatchCan Pro (CCPK-10) for **LARGE TURF** audits. Measures ml, cm, inches.

CatchCan Pro Mini (CCPMK-10) for **SMALL TURF** audits. Measures inches.

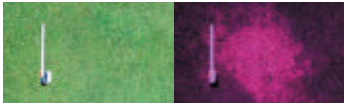
ordering

Part # AUD-ST	AuditMaster ST Kit	Part # A-HBG-160K	3/4" POC Hose Bib w/Gauge
Part # AUD-LT	AuditMaster LT Kit	Part # A-PHG-160K	Pitot Tube, 30" Flex Hose w/Gauge
Part # AUD-STLT	AuditMaster Combo ST/LT Kit	Part # A-SHG-160K	Spray Head Tester w/Gauge
Part # SALES-PRO4	AuditMaster Wheeled Carry Case	Part # MT-100	Fiberglass Measuring Tape: 100'
Part # CCPK-10	CatchCan Pro (Blue) - 10 Pack	Part # A-STW	Stop Watch
Part # CCPMK-10	CatchCan Pro Mini - 10 Pack	Part # A-WIND	Anemometer (Wind Gauge)
		Part # A-FLAG-50	Marking Flags - 50 Pack

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.



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



superior weed location and spraying saves time and money

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

HOW IT WORKS

Dying vegetation absorbs and reflects sunlight differently than when it's 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

HeadChecker™

NOZZLE DISCHARGE PRESSURE GAUGE

Use our liquid-filled 160 psi gauge with a solid brass Pitot tube, hose bib, or spray head adapter to measure water pressure at discharge points or in the pipeline.



ordering

- | | |
|-----------------|--|
| Part # A-HCGPK | HeadChecker™ 160 psi gauge and Pitot tube |
| Part # A-PG160L | Pressure gauge only |
| Part # A-HCP | Pitot tube only |
| Part # A-PH | 30" Flex Hose For Pitot tube/gauge |
| Part # A-HBT | 3/4" Hose Thread x 1/4" Brass Hose Bib Tap |
| Part # A-SHA | Spray Head Adapter |





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

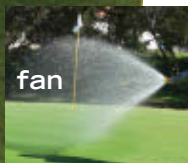
- Built for 1" and 3/4" flow rates
- Fire hose quality nozzle feels great in your hands
- Ultra-durable construction withstands any abuse
- Solid metal internal - no plastic parts to break or wear out
- Beautiful, consistent spray patterns for life
- Ratchet mechanism prevents over-tightening damage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

ordering

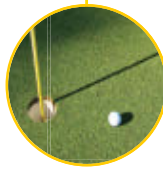
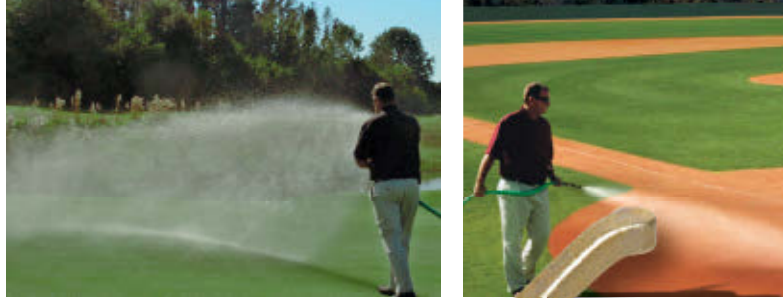
Part # NG450	MAGNUM™ Hose Nozzle
Part # HNC075	CoolPro™ Valve and Nozzle
Part # CV075L	CoolPro™ Valve only

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.

Precision™

SOLID METAL, SPECIFIC TASK HOSE NOZZLES

Underhill Precision™ nozzles deliver millions of soft, uniform droplets to provide rapid yet surprisingly gentle water application over a huge range of flow rates. From soft watering to powerful drenching, patented Precision nozzles are designed with ideal flow rates and droplet sizes to fully irrigate without disturbing turf, dirt, seeds, etc., providing a precise solution for every hand watering application.



NEW!

NozzlePro KIT

MAGNUM, CoolPro, the entire Precision nozzle series and a high-flow brass valve - kept safe and secure in an unbreakable, lockable, corrosion-proof case.



choose your nozzle by flow rate or specific task

NOZZLE NAME (color)	GPM	VALVE	TASKS
Rainbow™ (yellow)	15	CoolPro	Greens, tees, sensitive landscaping, transplants, seed beds
Rainmaker™ (green)	23	High-Flow	Syringe and spot watering turf and hardy landscaping
Cloudburst™ (blue)	48	High-Flow	Dry spots, high volume drenching and application of wetting agent
Cyclone™ (red)	50+	High-Flow	Pre-game skins watering, heavy watering of large areas

Note: GPM will vary with pressure at nozzle.

high-flow valves



HIGHEST FLOW VALVES AVAILABLE

SOLID BRASS

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

COMPOSITE / STAINLESS STEEL

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

hose adapters / quick-connectors



ordering

Part # HP-K1	NozzlePro Kit
Part # HN1500	Precision™ Rainbow™ Hose Nozzle
Part # HN2300	Precision™ Rainmaker™ Hose Nozzle
Part # HN4800	Precision™ Cloudburst™ Hose Nozzle
Part # HN5000	Precision™ Cyclone™ Hose Nozzle
Add "-CV" to part numbers to include brass high-flow valve and 1" adapter (as pictured above).	
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