

During the 2020 Baltusrol restoration, the PrecisionAire HVAC System was installed on all 19 greens in preparation for the 2023 Women's PGA Championship and the 2029 PGA Championship.

The 2023 Tournament will mark the first time that the women's event is played at Baltusrol, while the men's edition is returning to the course for the third time.

Springfield, NJ















Owings Mills, MD



Los Angeles, CA









The Merion Golf Club Restoration

Vaulted PrecisionAire HVAC Pressure/Vacuum Sub-Surface System Installation













"Subsurface aeration is a widely used agronomic program for USGA greens. Having the ability to run vacuum and pressure aids in moisture removal and gas exchange. With the PA technology, we can perform those tasks along with heating / cooling the air going into the rootzone. This allows us to manipulate the soil temperatures and push air into the rootzone regardless of the ambient air temperature. Having the PrecisionAire HVAC Pressure/Vacuum Sub-Surface System is a powerful tool to aid in growing Creeping bentgrass greens in the transition zone."

Paul B. Latshaw, MSM, CGCS Director of Golf Course Operations, Merion Golf Club, PA





















PrecisionAire above ground HVAC
system is being installed at
Muirfield Village Golf Club
this Spring to help prepare for
The 2021 Memorial Tournament



Click Here to View Video







Bloomfield Hills, MI

Oakland Hills Country Club, during their 2020 renovation, installed The PrecisionAire Vaulted HVAC System for day to day member play, but also for future major championships.

Oakland Hills has hosted eleven professional major championships - including six U.S. Opens, four PGA Championships, the 2004 Ryder Cup and the 1922 Western Open, along with the 2002 and 2016 U.S. Amateur.







Click here to view video



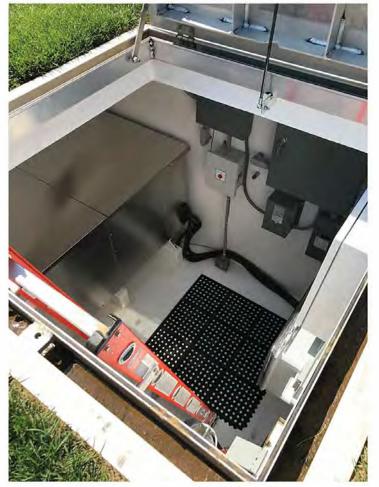














Vagnero



Westlake, TX

The Vaquero Club in Westlake, Texas has PrecisionAire HVAC System on nine greens and will be installing a PrecisionAire Hydronics Heating/Cooling unit on test green in February for the upcoming 2022 renovation.

Matt Weitz, the Director of Grounds, said that he is excited about the possibilities that The Vaquero would be the 1st in the USA to have both to heat, cool and vacuum using forced air and the ability to heat and cool using Hydronics.









Wee Burn Country Club Darien, CT

The PrecisionAire vaulted and above ground HVAC system was installed on all greens.
(Wee Burn has a combination of above and below ground units.)

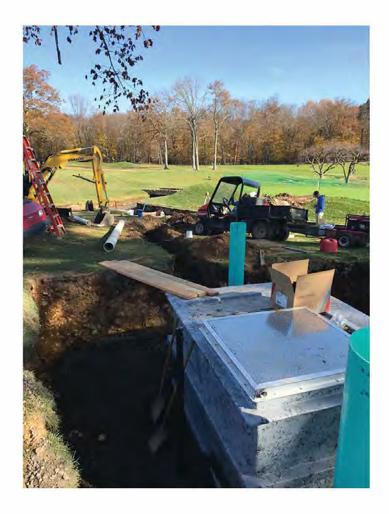
























Installed the PrecisionAire Hydronics Heating/Cooling System during their recent renovation to help prepare for the 2021 KitchenAid Sr. PGA Championship and the 2030 PGA Championship.

Tulsa, OK





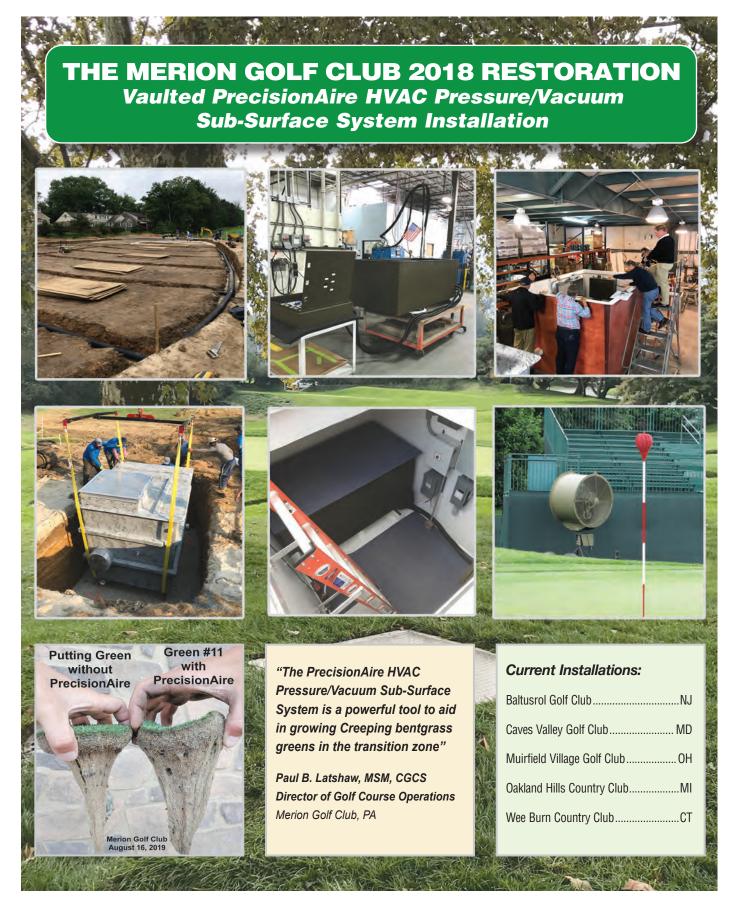




Click here to view video







THE LEADERS DEMAND PERFECTION!







Bel-Air Country Club #5

©Evan Schiller

"In Southern California we are open all year around with our goal of meeting the memberships expectations of perfect putting surfaces 365. PrecisionAire HVAC units allow me to keep our growing medium temperatures exactly where I need them to be. This tool allows me to stretch the window of optimum temps longer than mother nature allows. We heat the greens November through March and cool them July through September. You can't control the weather, but with PrecisionAire units I'm that much closer to a fair fight. We are committed to adding more units annually throughout the property."

Justin DePippo, Bel-Air County Club, CA





"Growing bent grass in Texas is no easy task as we often experience daytime highs over 100° and nighttime lows above 80 for weeks on end. PrecisionAire allows us to blow air conditioning into the greens profile 24/7 during these stressful times through the subsurface drainage. The plant benefits as a result of additional oxygen combined with cooling the soil profile and gave us the competitive edge we were seeking. I have seen as dramatic as 18° cooler soil temperatures at a 2" depth and as a result we see less stress on the turf and less water being applied to keep the plant performing to our expectations. Our master plan includes a PrecisionAire on all the greens at Vaquero."

Matt Weitz, Vaquero Club, TX





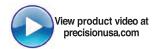




#17 TPC at Sawgrass Stadium Course, FL

"We are currently using The PrecisionAire in the heat mode to raise soil temperatures. We expect to see tremendous improvement through the winter months."

- TPC Sawgrass, Ponte Vedra Beach, FL



AIR CONDITIONING & HEATING SYSTEM FOR SUB-SURFACE AERATION AND MOISTURE REMOVAL

The PrecisionAire[™] is a self-contained pressure system for sub-surface air movement, which moves temperature controlled air into your sub-surface drainage system of a USGA green. It produces cooled or heated air, which permeates through the root zone. This provides control over the growing conditions of bentgrass greens.

PrecisionAire[™] Benefits

Order Hotline: 800-345-1960

This sub-surface aeration system is a great benefit because it provides oxygen to the root zone, which helps keep the turf grass healthier. It allows you to manage moisture & soil temperature levels so that turfgrass can be grown even in extreme climate conditions.

Stationary, Portable & Vaulted Units Available.

"The Ultimate Subsurface Aeration System"

Patented –



THE ULTIMATE SUBSURFACE AERATION SYSTEM



How It Works



MOISTURE REMOVAL

The vacuum port of the PrecisionAire is connected to the drainage system. This creates a vacuum in the root zone which allows excess moisture to be removed.

By controlling the moisture in the soil, PrecisionAire helps prevent the occurrence of surface algae, disease and root damage.



AERATION

Gases such as carbon dioxide and methane can gradually buildup in the root zone and cause poor growing conditions.

By moving air through the root zone harmful gases are removed from the entire green.

PrecisionAire Temperature Control Capabilities

Winter - Outside Temperature 30°



PrecisionAire Outlet Temperature 120°

HEATS ROOT ZONE!

Summer - Outside Temperature 98°



PrecisionAire Outlet Temperature 68°

COOLS ROOT ZONE!

PrecisionAire moves heated or cooled air through the gravel and subsoil surrounding the drain pipe. As a result, our system can moderate the temperature of the root zone. The benefit achieved is a root zone that is kept cooler in the summer and warmer in the winter, which ultimately extends the growing season.



"PrecisionAire System is a great management tool for growing bent grass greens in the transition zone. Moving cool air through the root zone has significant benefit throughout the growing season. In the past, I feared that introducing warm, ambient air into the subsurface would damage turf, but the Precisionaire System cools the air before it enters root zone and actually lowers soil temperatures by 5 degrees or more. During wet periods, the system helps remove excess water and increase aeration."

Tom Walker, GCS, Anne Arundel Manor, Harwood, MD

Just ask your peers about our Air Movement Products & Service!

References:

Alotian Golf Club, AR
Anne Arundel Manor, MD
Bel-Air Country Club, CA
Merion Golf Club, PA
Mirabel Golf Club, AZ
Muirfield Village Golf Club, OH
TPC Sawgrass Stadium Course, FL
Valhalla Golf Club, TX

Current Installations:

Baltusrol Golf Club, NJ Caves Valley Golf Club, MD Muirfield Village Golf Club, OH Oakland Hills Country Club, MI Wee Burn Country Club, CT







"The Preserve Golf Club is located in the Biloxi, MS region near Mobile, AL. This area receives more rainfall than any region in the continental U.S. with recent years nearing 100" of total annual rainfall. In 2014, we completely rebuilt our greens. We took advantage of this opportunity and installed "The Precision Loop" under all putting surfaces. The "Loop" paired with the PrecisionAire subsurface aeration system has given us the capability to oxygenate our greens with zero playing disturbance anytime during the growing season by pulling moisture out and oxygen into the root zone thoroughly and evenly. Since our renovation, we no longer battle black layer or other common root zone issues many facilities face. I consider PrecisionAire to be an essential tool in our Agronomic operations that has resulted in consistently elite putting surfaces."

Stephen Miles, The Preserve Club, MS

SUBSURFACE REFERENCES

Cambrian Ridge GC	AL
Cherokee Ridge GC	AL
Farm Links GC	AL
Hoover CC	
Mountain Brook Club	
Willow Point G & CC	
Alotian GC	AR
Blessings GC	
Hot Springs Village	AR
City of Scottsdale	
Troon Golf & CC	
Grand Del Mar Resort	
Lahontan GC	CA
Los Angeles Country Club	CA
Monterey Peninsula CC	CA
Pebble Beach Golf Links	CA
Torrey Pines GC	CA
Vellano CC	
Eagle Springs GC	CO
Woodway CC	
Addison Reserve CC	
Audubon CC	FL
Card Sound GC	FL
Deer Creek CC	FL
Fiddlers Creek GC	FL
Gator Creek GC	
Glades CC	
Golden Eagle CC	FL
Hawks Nest GC	
Lago Mar CC	
Lake Nona GC	FL

Mirasol ClubFL	
Naples Lakes G & CCFL	
Ocean Hammock GCFL	
Olde Florida GCFL	
Pipers Landing CCFL	
Quail West CCFL	
Royal Palm CCFL	
Shadow Wood CCFL	
TPC Sawgrass Stadium CourseFL	
The Club at MediterraFL	
The Club at Pelican BayFL	
Tiburon GCFL	
Vasari CCFL	
Willoughby GCFL	
Currahee ClubGA	
Farm Golf ClubGA	
Ocean Forest GCGA	
Reynolds PlantationGA	
The Creek ClubGA	
The River ClubGA	
Medinah CCIL	
Westmoreland CCIL	
Hodge Park Shoal Creek GCKS	
Ironhorse GCKS	
Shadow Glen GCKS	
Wolf Creek Golf LinksKS	
Heritage Hills GCKY	
Valhalla GCKY	
Dedham CCMA	
The Nantucket GCMA	
Weston Golf Club MA	

Detroit CC	
Anne Arundel Manor	MD
Congressional CC	MD
Whiskey Creek CC	MD
Edina ĆC Spring Hill GC	MN
Spring Hill GC	MN
Columbia CC	MO
Old Hickory GC	MO
Westwood CC	MO
Preserve GC	MS
Charlotte CC	
Country Club of Landfall	NC
Eagle Point GC	
Myers Park CC	
Rock Barn Club of Golf	
Battleground CC	NJ
Due Process Stable	
Eagle Oaks GC	NJ
Hamilton Farm GC	NJ
Liberty National GC	
The Ridge at Back Brook	NJ
Siwanoy CC	NJ
GlenArbor GC	NY
Hudson National GC	
Old Westbury Golf & CC	NY
Quaker Ridge GC	
Muirfield Village GC	OH
Sand Ridge GC	OH
The Country Club	OH
Belmar Golf Club	
Oklahoma City G & CC	OK

outhern Hills CC	OK
Vinstar GC	OK
pplecross Country Club	PA
derion GC	PA
River Crest GC	PA
Saucon Valley CC	PA
Vhite Manor CC	PA
helter Harbor GC	RI
ataw Island GC	SC
awleys Plantation	SC
haftesbury Glen Golf & Fish	SC
Voodside Plantation CC	
Belle Meade CC	TN
ennessee National	
ustin GC	
Briggs Ranch GC	
Brook Hollow GC	
allas CC	
our Seasons Hotel Irving	
reston Trail GC	
Iniversity of Texas GC	
Boonsboro CC	
oplar Grove GC	
Green Bay CC	
ikewood National GC	
lbany of the BahamasBaha	
itsugi Kokusai CCJ	apan
Royal Gems G & CCTha	iland







The PrecisionAire™ portable sub-surface aeration & moisture removal system utilizes the sub-surface drainage of a USGA green.

GAS OR ELECTRIC POWERED VACUUM OR BLOWING MODES

Features & Benefits:

- Quiet Operation
- Quick Water Removal
- Quick Gas/Oxygen Exchange
- Pressure & Vacuum Modes
- Quick Connect/Disconnect Fittings

Specifications:

- High Output Blower
- Aerodynamic 8 Blade Aluminum Impeller
- · Adjustable Air Flow
- All Aluminum Housing (18hp)
- Heavy Duty Trailer

- Golf Friendly Tires
- Hose Rack (except 465PB-18KBDCA)
- System Control Panel (electric units)
- · Completely Self Contained



MODEL 465PB-18KBDCA Gas Powered

- Kohler Command 18hp Engine
- 4500 CFM
- 4" or 6" Intake/Exhaust Quick Connects
- Weight 375 lbs.

Price With Trailer \$ CALL

MODEL 465PB-39A Gas Powered

- Kohler Command 25hp Engine
- 5500 CFM
- 4" or 6" Intake/Exhaust Quick Connects
- Weight 500 lbs.

Price \$ CALL

For More Information On PrecisionAire™, visit precisionusa.com

"On the newly renovated Weyhill course, we installed the "Precision Loop" piping with connections on every green for the PrecisionAire portable blower/vacuum system. The system allows us to keep the greens dry and firm during the severe weather that we experience in the mid-Atlantic region. The portable units offer us the flexibility we need."

Director of Golf Course and Grounds Saucon Valley CC, Bethlehem, PA



MODEL 465PB-05BDCA Electric Powered

- Electric Motor 5hp
- 4" or 6" Intake/Exhaust Quick Connects
- · Weight 475 lbs.

Price \$ CALL

MODEL 465PB-75E Electric Powered

- Electric Motor 7.5hp
- 4" or 6" Intake/Exhaust Quick Connects
- Weight 475 lbs.

Price \$ CALL

Green Benefits:

 Moisture Control: Drying of the greens through moisture removal from the soil and drainage system.

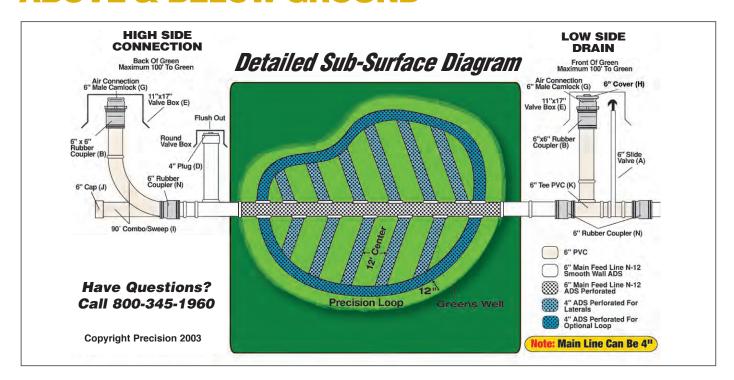
• Improves Drainage: Creates a positive airflow through the soil profile, therefore accelerating the natural

draining process.

Constant oxygenating of the root zone by removing gases which stimulates Oxygenates Roots:

root growth and results in improved soil quality.

PRECISION "THE EXPERTS IN AIR MOVEMENT" ABOVE & BELOW GROUND





Order Hotline: 800-345-1960



Automatic Dual Valve Works In Pressure/ Vacuum Mode PART # 911BV6 **\$CALL**

Underground Pipe Fittings for PrecisionAire

REF.	APPLICATION	4" PART #	PRICE	6" PART #	PRICE
Α	Slide Valve	9116401	\$CALL	9116601	\$CALL
В	Rubber Coupler Slip	9114PX4P	\$16.95	9116PX6P	\$26.95
C	Rubber Coupler 4" x 6" Slip PVC	9114PX6P	\$39.95		
C	Rubber Coupler 4" PVC x 6" Clay	9116CX4P	\$36.95		
D	Plug Fits inside PVC	911JT31004	\$29.95	911JT31006	\$39.95
E	Valve Box W/Cover Plastic 17" x 24"	911VBJB1724	\$59.95		
F	Quick Connect Coupler Female Slip	484PPC400	\$48.95	484600-C-AL	\$109.95
G	Quick Connect Adapter Male Slip	484PPE400	\$20.65	484600-E-AL	\$83.95
Н	Quick Connect Cap Cover	484PPH400	\$24.95	484600-DC-AL	\$74.95
ı	Sweep Combo 90 degrees PVC	911LP503-040	\$59.95	911LP503-060	\$149.95
J	Cap PVC	911447-040	\$13.95	911447-060	\$22.95
K	Tee PVC	911401-040	\$19.95	911LP441-060	\$51.95
L	PVC SWR RH THRD CO Plug 6"			911LP106-060	\$19.95
M	PVC Coupler 6" FRT x Slip			911LP105-060	\$25.95
P	Valve Box Round 10"	911VB10	\$13.95		
Q	Hose - 15' Long	911RFH-4	\$15.00	911RFH-6	\$16.50
N	Rubber Coupler 4" Clay x 4" Cl PVC	9114CX4P	\$18.95		
N	Rubber Coupler 6" Clay x 6" CI PVC			9116CX6P	\$27.95
0	Reducing Coupler/Adapter				
	6" Female Coupler x 4" Male Adapter			4846040-DA-AL	\$214.60
R	Quick Connect 6" Male x 6" NPT			484600-F-AL	\$81.95





PRECISIONAIRE HYDRONICS

HYDRONIC TEMPERATURE CONTROL

- Tubing Placed Above Gravel Layer
- Cooled or Heated Water Circulated in Tubing
- · Cool or Heat Root Zone

- Extend Growing Season
- Change Soil Temperature up to 20°
- Prevent Frost / Melt Snow





Hydronics System

Hydronics Greens Tubing

Precision Grow[™] by Precision

The High Tech Solution for Problem Areas! 140,000 Lumens!

Precision *Grow*[™] is a high tech grow light system that allows you to produce artificial sunlight needed to grow or rejuvenate turf in weak or shaded areas. *Use it day or night.* Just dial in the proper amount of light and you are ready to go!

PART #	DESCRIPTION	PRICE
9121500W	Fixture only (lamp not included)	\$995.00
912MVR1500	Lamp 1500 watt	\$140.95



Will Work With All Voltages

120 Volts = 13.5 Amps 208 Volts = 8.0 Amps 240 Volts = 7.0 Amps 277 Volts = 6.0 Amps

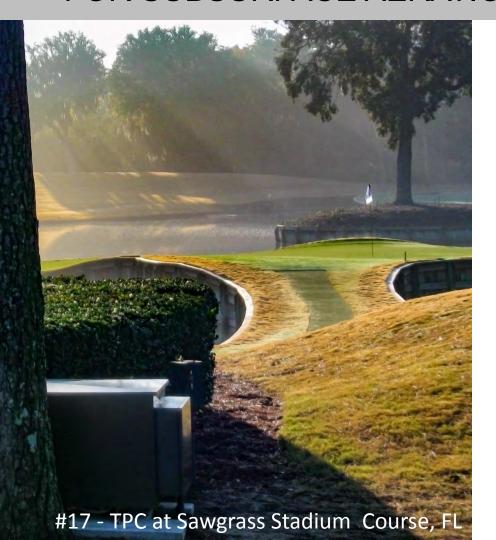
Positive Results in 24 Hours!

For more information visit precisionusa.com

Precision*Grow*™ Customers Ansley Golf ClubGA Limestone SpringsAL Quail West Country ClubFL Riviera Country ClubCA Oak Hill Country ClubNY Calusa Pines Golf ClubFL Card Sound Golf Club.....FL Old Collier Golf Club, TheFL Southern Hills Country ClubOK Trump International Golf Club.....FL Cherokee Town & Country ClubGA Old Memorial Golf Club.....FL Vellano Country Club CA Pebble Beach Golf LinksCA Colliers ReserveFL



AIR CONDITIONING & HEATING SYSTEM FOR SUBSURFACE AERATION & MOISTURE REMOVAL



PrecisionAire[™] is a self-contained pressure system for sub-surface air movement, which moves temperature controlled air into the sub-surface drainage system of a USGA green.

Our system allows management of soil moisture, oxygen, and temperature levels – permitting healthy and optimal turf growth in extreme climate conditions

OPERATING MODES & BENEFITS



MOISTURE REMOVAL

The vacuum port of the PrecisionAire is connected to the drainage system. This creates a vacuum in the root zone which allows excess moisture to be removed.

By controlling the moisture in the soil, PrecisionAire helps prevent the occurrence of surface algae, disease and root damage.



AERATION

Gases such as carbon dioxide and methane can gradually buildup in the root zone and cause poor growing conditions.

By moving air through the root zone harmful gases are removed from the entire green.

Winter - Outside Temperature 30°



PrecisionAire Outlet Temperature 120°

HEATS ROOT ZONE!

Summer - Outside Temperature 98°

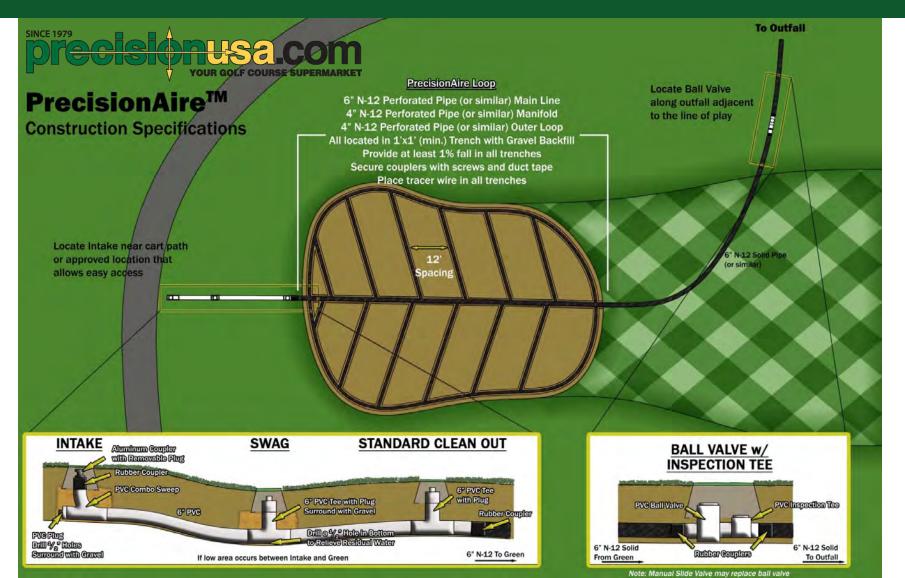


PrecisionAire Outlet Temperature 68°

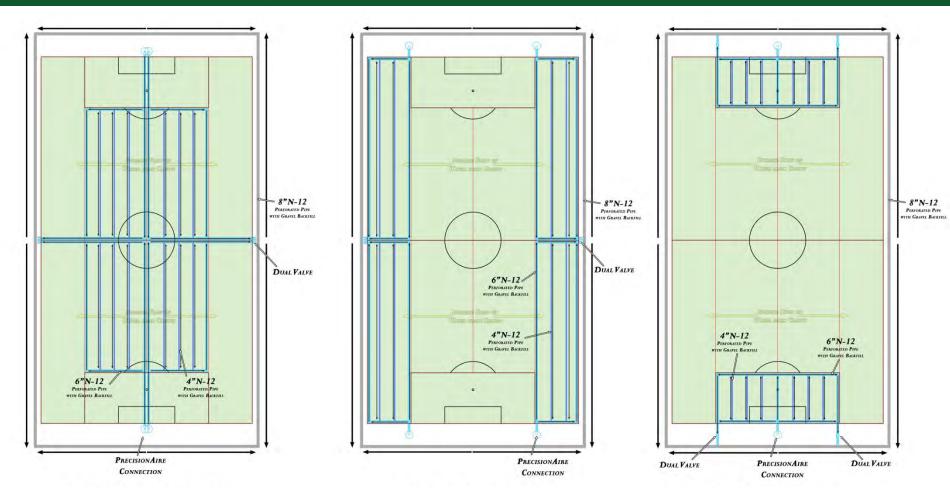
COOLS ROOT ZONE!

PrecisionAire moves heated or cooled air through the gravel and subsoil surrounding the drain pipe. As a result, our system can moderate the temperature of the root zone. The benefit achieved is a root zone that is kept cooler in the summer and warmer in the winter, which ultimately extends the growing season.

THE PRECISIONAIRE GOLF GREEN



THE PRECISIONAIRE MULTI-ZONED PITCH FIELD



4 MIDFIELD ZONES

4 SIDELINE ZONES

2 GOAL ZONES

PRECISIONAIRE PREMIUM

MODEL OFFERINGS & UNIT TYPES:

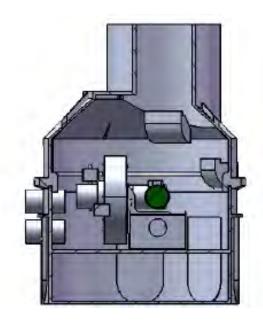
Moisture Removal





Aeration





UNDERGROUND VAULTED

PRECISIONAIRE PREMIUM

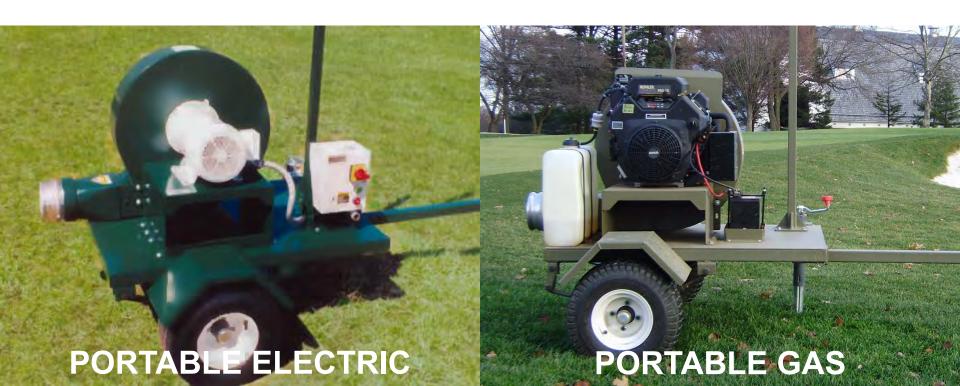
MODEL OFFERINGS & UNIT TYPES:

Moisture Removal





Aeration

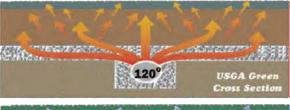


PRECISIONAIRE FLAGSHIP

MODEL OFFERINGS & UNIT TYPES:

Moisture Removal





Heating

Aeration





Cooling



PRECISIONAIRE FLAGSHIP

MODEL OFFERINGS & UNIT TYPES:

Moisture Removal





Heating

Aeration



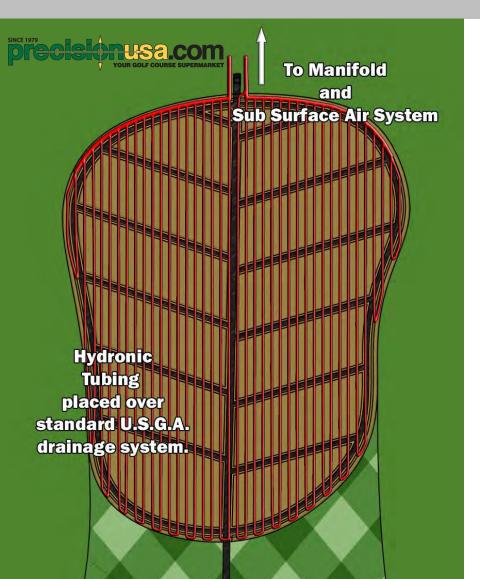


Cooling



PRECISIONAIRE HYDRONICS

WATER COOLING & HEATING SYSTEM



PrecisionAireTM Hydronics is a hybrid system that combines PrecisionAire's air movement technologies with an alternative heating and cooling source.

Instead of air, PrecisionAire
Hydronics uses water circulation
for controlling the temperature of a
green's root zone, while still
utilizing vacuum and suction
modes via the drainage loop for
subsurface aeration and moisture
removal.

PRECISIONAIRE HYDRONICS

MODEL OFFERINGS & UNIT TYPES:

Moisture Removal





Heating

Aeration





Cooling





REFERENCES

Cambrian Ridge Golf Course, AL Cherokee Ridge Golf Course, AL Farm Links Golf Club, AL Hoover Country Club, AL Mountain Brook Club, AL Willow Point Golf & Country Club, AL Alotion Golf Club, AR Hot Springs Village, AR City of Scottsdale, AZ Mirabel Golf Club, AZ Troon Golf & Country Club, AZ Grand Del Mar Resort, CA Lahontan Golf Club, CA Monterey Peninsula Country Club, CA Pebble Beach Golf Links, CA Torrey Pines, Golf Club, CA Vellano Country Club, CA Eagle Springs Country Club, CO Woodway Country Club, CT Addison Reserve Country Club, FL Card Sound Golf Club, FL Deer Creek Country Club, FL Fiddlers Creek Golf Club. FL Gator Creek Golf Club, FL Glades Country Club, FL Golden Eagle Country Club, FL Hawk's Nest Golf Club, FL Lago Mar Country Club, FL Lake Nona Golf Club, FL Mirasol Club, FL Naples Lakes Golf & Country Club, FL Ocean Hammock Golf Club, FL Olde Florida Country Club, FL Piper's Landing Country Club, FL Quail West Country Club, FL

Royal Palm Country Club, FL Shadow Wood Country Club, FL TPC at Sawgrass, FL The Club at Pelican Bay, FL Tiburon Golf Club, FL Vasari Country Club, FL Willoughby Golf Club, FL Currahee Club, GA Farm Golf Club, GA Ocean Forest Golf Club, GA Reynolds Plantation, GA The Creek Club, GA The River Club, GA Medinah Country Club, IL Westmoreland Country Club, IL Hodge Park Shoal Creek Golf Club, KS Ironhorse Golf Club, KS Shadow Glen Golf Course, KS Wolf Creek Golf Links, KS Heritage Hills Golf Club, KY Valhalla Golf Club, KY Deham Golf Club, MA The Nantucket Golf Club, MA Weston Golf Club, MA Detroit Country Club, MI Anne Arundel Manor, MD Congressional Country Club, MD Whiskey Creek Country Club, MD Edina Country Club, MN Spring Hill Golf Club, MN Columbia Country Club, MO Old Hickory Golf Club, MO Westwood Country Club, MO Preserve Golf Club, MS Charlotte Country Club, NC Country Club of Landfall, NC Eagle Point Golf Club. NC Myers Park Country Club, NC Rock Barn Club of Golf. NC Battleground Country Club, NJ

Due Process Stable, NJ Eagle Oaks Golf Club, NJ Hamilton Farm Golf Club, NJ Liberty National Golf Club, NJ The Ridge at Back Brook, NJ Siwanoy Country Club, NJ GlenArbor Golf Club, NY Hudson National Golf Club, NY Old Westbury Golf & Country Club, NY Quaker Ridge Golf Club, NY Muirfield Village Golf Club, OH Sand Ridge Golf Club, OH The Country Club, OH Belmar Golf Club, OK Southern Hills Country Club, OK Winstar Golf Club, OK Merion Golf Club, PA River Crest Golf Club, PA Saucon Valley Country Club, PA White Manor Country Club, PA Shelter Harbor Golf Club, RI Dataw Island Golf Club, SC Pawley's Plantation, SC Shaftesbury Glen Golf & Fish, SC Woodside Plantation Country Club, SC Belle Meade Country Club, TN Tennessee National, TN Austin Golf Club, TX Briggs Ranch Golf Club, TX Brook Hollow Golf Club, TX Dallas Country Club, TX Four Seasons Hotel Irving, TX Preston Trail Golf Club, TX University of Texas Golf Club, TX Boonsboro Country Club, VA Poplar Grove Golf Club, VA Green Bay Country Club, WI Pikewood National Golf Club, WV Atsugi Kokusai Country Club, JA-PAN Royal Gems Golf & Sports Club, THAILAND