

HYDROCHILL®
EVAPORATIVE COOLING SYSTEM

U.S. Patent No. 7,153,553 B2 And Patent Pending



How does HydroChill work?

It cools your lawn like nature cools your body.

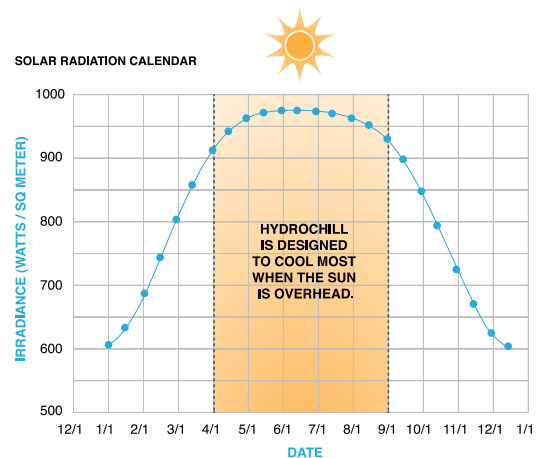
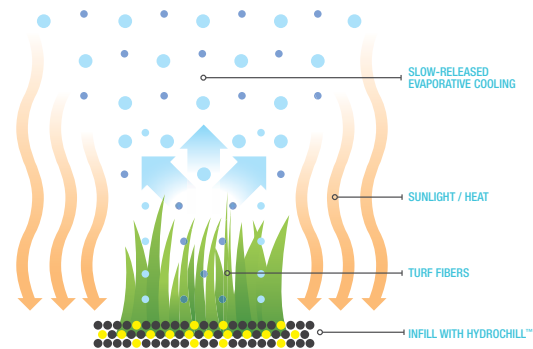
EVAPORATIVE COOLING TECHNOLOGY

Sweating is a natural means of thermoregulation called evaporative cooling. Evaporation of moisture from the skin's surface has a cooling effect. Similarly, HydroChill has been shown to cool synthetic turf surfaces by working on the same principle. As the turf surface is heated by solar radiation, moisture stored in the HydroChill turf is released. Evaporating moisture removes heat, leaving a cooler more comfortable lawn.

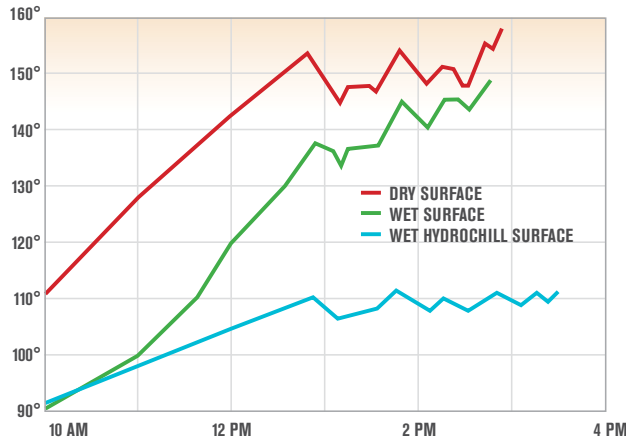
WHEN HYDROCHILL IS MOST EFFECTIVE

Ambient temperature outside doesn't necessarily dictate surface temperature. The solar radiation time period, sun's angle, cloud cover, wind and other elements all contribute to the temperature of the surface. HydroChill provides maximum benefit during the hottest part of the day. During the summer months in the U.S., the sun is positioned overhead causing surfaces to absorb more energy resulting in hotter temperatures. The rotation of the Earth is also responsible for hourly variations in sunlight thus making HydroChill most effective during the hotter part of a clear day when most needed.

- > HydroChill utilizes moisture to provide a cooling effect. Rainfall, dew or irrigation can help keep the field cool for days, depending on local conditions.
- > HydroChill can be incorporated into most Synthetic Turf infilled systems.
- > HydroChill will not affect the performance characteristics of synthetic turf and will not affect the warranty.
- > HydroChill is UV-resistant.



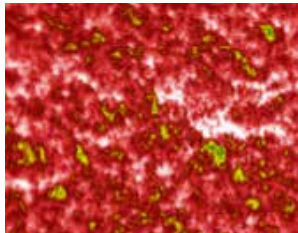
HC° HYDROCHILL®
EVAPORATIVE COOLING SYSTEM



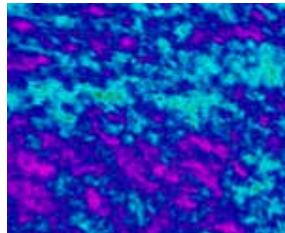
THERMOCOUPLE TEST READINGS FROM ACTUAL SYNTHETIC TURF LAWNS

A standard field with a wet surface will cause some cooling, but temperatures can quickly rise and may exceed uncomfortable levels of heat.

A HydroChill field has been shown to create a substantial temperature differential in real-world applications. Based on actual lab and outdoor field thermocouple testing, HydroChill has achieved 50° lower surface temperatures compared to a standard synthetic turf system.



DRY SURFACE



HYDROCHILL

FLIR (FORWARD LOOKING INFRARED) READING: STANDARD SYNTHETIC SURFACE VS. HYDROCHILL

Further testing was performed by a FLIR-Certified Thermographer using the most advanced camera imagery and technology. The FLIR camera was calibrated for emmissivities of various materials used in the turf system so additional accurate temperature measurements could be obtained.

Bottom line—the HydroChill system works in actual outdoor settings by providing a cooler playing surface.

Based on actual lab and outdoor field thermocouple testing, HydroChill has achieved 50° lower surface temperatures compared to a standard synthetic turf system.

2016

was the hottest year on record in the U.S.

14 of the **15**

hottest years on record have occurred since 2000

2014 and 2015 were the

2ND & 3RD

hottest summers on record

More than 58 million people in the U.S. experienced

100°

temperatures where they live in 2016

Of the energy absorbed into turf from solar radiation,

90%

is released as heat while only 10% is conducted into the ground



Bac-Shield Chitosan-Based Antimicrobial is EPA-Registered for control of odor-causing microbes. Bac-Shield makes a surface an unsuitable environment for the growth of mold, mildew, fungi or bacteria.