Keep your sports field free of snow and ice with an efficient and ecological undersoil heating system.

PIPELIFE
always part of your life

OPTIMIZED UNDERSOIL HEATING FOR PREMIUM TURF CONDITIONING

You cannot control the weather, however with Pipelife Hydronic Radiant Heating Systems, you can take control of your outdoor surface conditions.

By opting for our one-stop-shop solutions and decades of expertise, you benefit from a complete and long-lasting set-up. Wherever you are based, our expert teams are on hand to provide professional guidance throughout your projects, from inception and design, to installation and after care support. Explore how you can have maximum occupancy and usage of your sports field all year round with efficient and economical heating solutions.

8 REASONS WHY HYDRONIC RADIANT SYSTEMS ARE IDEAL FOR SPORTS FIELDS:

1. SAVE OPERATING COSTS AND ENERGY

Regardless of field size or even when temperatures drop as low as minus 20 degrees, you have the ability to melt snow and ice with low-temperature heat. As a result, you can achieve optimal heating efficiency with little energy, thus keeping your running costs down.

2. MAINTAIN TURF IN ALL WEATHER CONDITIONS

By keeping ground temperature at the appropriate level during all seasons, the superior quality of your turf can be maintained, whilst also preventing stagnant water or moisture. This enables a faster recovery after each game and the ability for natural grass to grow all year round, prolonging playing seasons during colder months.

Undersoil heating pipes being installed at Terme Vivat Complex in Slovenia.

FIFA standard football fields with natural grass at Terme Vivat Complex, Moravske Toplice, Slovenia

3. USE SPORTS FIELD ALL YEAR ROUND

You can avoid unnecessary game cancellations or postponed trainings due to weather conditions or frozen grounds. Meaning you benefit from a good rate of return by having maximum occupancy and usage throughout all seasons.

4. INCREASE SAFETY FOR PLAYERS

By keeping your sports field as dry as possible you can limit risks of slipping and falling, resulting in fewer injuries for athletes. This also prevents water stagnation or condensation on the pitch, which limits the accumulation of snow and ice even on parts that are shaded during the day.

5. OPT FOR ECO ENERGY SYSTEMS

When combined with sustainable energy sources such as solar collection systems, geothermal heat pumps and condensing boilers, a hydronic underfloor heating system can help reduce running costs and environmental implications.

6. RELY ON TRUSTED SERVICES AND SUPPORT

Communities around the world rely on our service, quality and solutions. Wherever you are based, our teams are on hand to provide local expertise throughout your projects, from inception and design, to installation and after care support.

7. TAILORED TO FIT YOUR REQUIREMENTS

Our hydronic underfloor heating systems are custom designed to precisely match the unique measurements and conditions of your sports field. They are also compatible with natural and artificial lawns. So whatever field type you have, you benefit from a well-maintained turf which will last many seasons.

8. FIFA QUALITY FOOTBALL TURF

As an owner of a football field you can have your pitch FIFA quality certified. One of FIFA's recommendations is to install an undersoil heating system for turf maintenance and to prevent sports fields from freezing in extreme winter conditions.

EXPECT A GOOD RETURN ON YOUR INVESTMENT

Regardless of the size you can heat your entire sports field with relatively low operating temperatures. This ensures optimal conditioning for your TURF by keeping it ice and snow free, enabling you to maximize its use all year round. You also have added peace of mind with a long service life.

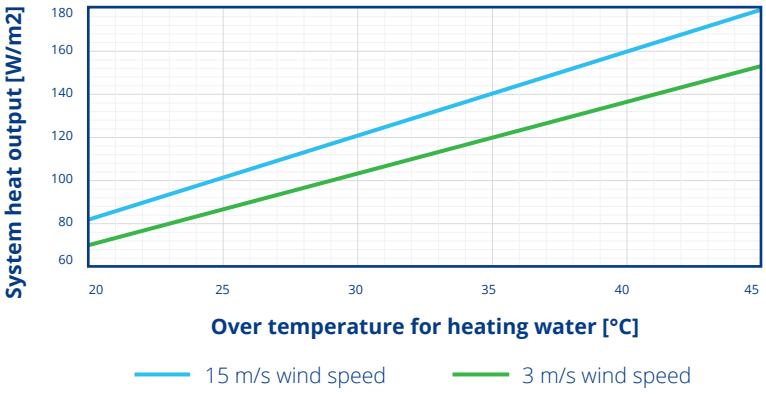
WHERE IS HYDRONIC UNDERFLOOR HEATING AN IDEAL SOLUTION?

Sports fields and outdoor sport facilities (pre or post construction) such as:

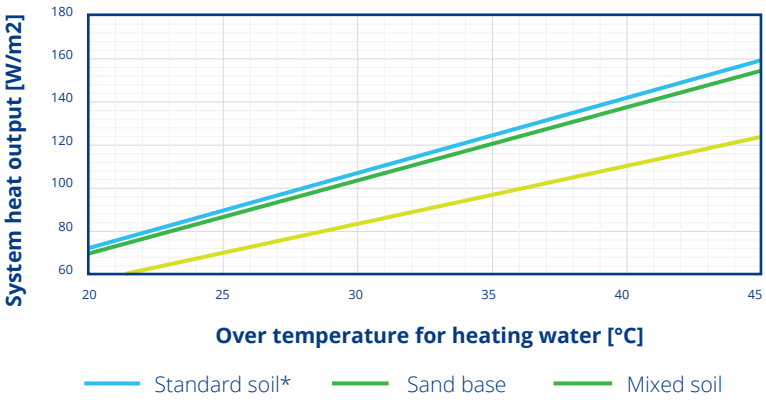
Football fields, athletic stadiums, American football fields, rugby fields, baseball fields etc. Compatible with natural and artificial lawns.

Compare how pipe spacing, pipe diameter and wind speed variations affect the supply/return temperature of the heating fluid, and as a result, the efficiency of the hydronic radiant system.

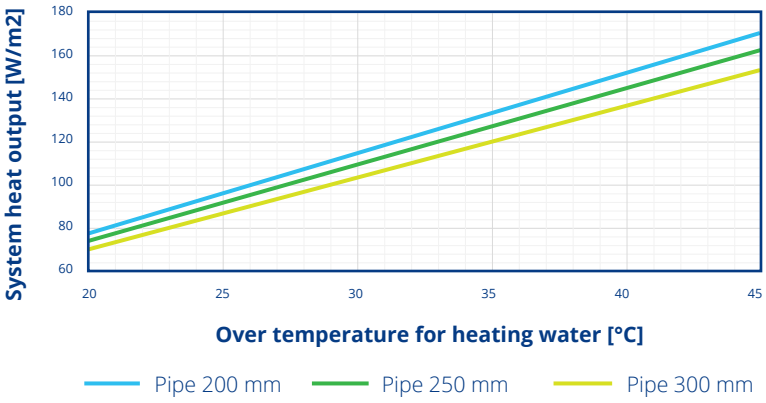
IMPACT OF WIND SPEED VARIATIONS [STANDARD SOIL* - DN 25 - PIPE SPACING 300 MM]



IMPACT OF SOIL VARIATIONS [DN 25 - PIPE SPACING 300 MM - 3 M/S WIND SPEED]



IMPACT OF PIPE DISTANCE VARIATIONS [STANDARD SOIL* - DN 25 - 3 M/S WIND SPEED]



*Standard soil: Grass carpet 30 mm; Root layer 100 mm; Gravel sand 0 - 2mm 175 mm; Gravel sand 0 - 4mm 50 mm; Gravel 0 - 32mm 100 mm

PRODUCT OVERVIEW

PERT-EVOH-PERT HEATING AND COOLING PIPE COILS

FT-R20L200	20x2.0 mm	200 m
FT-R20L500	20x2.0 mm	500 m
FT-R25L200	25x2.3 mm	200 m
FT-R25L500	25x2.3 mm	500 m

2nd generation (PERT II) with integrated diffusion barrier made from EVOH. Produced in accordance with EN ISO 21003. Application class 4, design temperature 60 °C, design pressure 8 bar.

CUSTOM MADE MANIFOLDS

FTV CUST	SINGLE
FTV CUST	DOUBLE

Prefabricated manifold made from 4th generation PP-RCT multilayer pipe produced to EN15874-2. Middle layer made from carbon-containing composite and special additives to provide an oxygen barrier in accordance with DIN 4726 and ISO 17455. Manifold diameter, distance, and size of connections produced as per design requirements. Single or double connection possibility, connection angle in accordance with project specifications.

EURO CONE ADAPTER

FT-KVA20/3/4

FT-KVA25/1

Euro cone adapter for connecting the pipe to the manifold. Made of brass, and nickel plated.

Connection nipple G ¾" (DN20) and G 1" (DN25)

ACCESSORIES

MOUNTING RAIL

WH-FR20/2 M for 20x2 mm pipe	Can be mounted in 3 ways: with staple clips, dowels or self-adhesive tape.
WH-FR25/1 M for 25x2 mm pipe	Can be mounted in 2 ways: with staple clips or dowels. For quick and easy pipe laying on floor construction. Made of polypropylene.

MANIFOLDS BEND SUPPORT

FT-IV20 bend support 20 - 22 mm

FT-IV25 bend support 25 mm

Easy, reliable, and space saving turns, for protection and support of pipe between the manifold and where it enters the floor. Compatible with either vertical or horizontal pipe position. Made of impact resistant glass fibre reinforced nylon.

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