

# UNDERFLOOR HEATING MAGAZINE

The most  
natural sense  
of warmth

Ultimate comfort  
at a lower  
temperature.

A fitting  
system for  
any floor.







# Home is where the warmth is.

## Endless comfort

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Underfloor heating offers the most comfortable way of heating. Due to the uniform heat radiation from the entire floor surface, a very even heat distribution is created. The floor will quickly reach a pleasant temperature.

Infrared heat or radiant heat works just like in nature: heat waves from the sun reach the wall of your home during the day, for example. Heat

is stored in this wall, which is then emitted again after a delay. In the evening, the ambient air cools down and the release of residual heat from the wall is clearly felt. An underfloor heating system works on the same principle.





## Transit of energy

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We are rapidly moving away from gas and switching to renewable energy sources. The innovation in this is going fast, but we have only just started. Whether it concerns the renovation of an old or an entirely new house to be built, our systems are already prepared for the future in order to provide maximum comfort for your situation, now and in the future.

## A sustainable home

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In many situations it is possible to install underfloor heating as the only heat source (main heating). If the insulation value of the house is not sufficient, for example in an older house, extra insulation and possibly installing wall heating can still achieve a high heat output.

***“Together towards  
a sustainable  
future.”***





## The difference

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With radiant heat (underfloor heating), the heat is emitted directly so that the room is heated more evenly and more quickly felt. Traditional convection heating only heats the air. Warm air has the property that it rises so that the temperature at the ceiling is significantly higher than close to the floor. Consequence: cold feet and a warm head.

## Lower temperature

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Underfloor heating offers enormous comfort at a lower temperature. By setting the lowering temperature of the system not lower than 50C, the heat remains in the floor mass. It takes less energy to bring the system back up to temperature than to let the floor cool down further each time. Not only the temperature is lower, but also your energy bill!

## Insulation is the key

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A well-functioning system strongly depends on the insulation value of your house. By first applying a good insulation you limit the heat loss downwards. The floor will retain the heat longer as a result. After all, underfloor heating works more efficiently with a well insulated subfloor.

# Efficiency and comfort at every level.





# Underfloor heating for every situation.

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Choosing the right underfloor heating for your situation is simple. A heating demand can easily be divided into 3 categories: New build, Renovation or Dry build.

New build systems can be installed directly in the cement screed. This allows more mass to be heated and the heat output is optimal.

For renovations it is important that systems can be applied without far-reaching interventions (such as milling). The minimum installation height of

these systems ensures that they can be installed on an existing floor and even in the wall, so that no radiators are needed.

Wood and laminate floors require weather systems that keep the temperature below 28°C in connection with the (natural) functioning of these floor coverings.

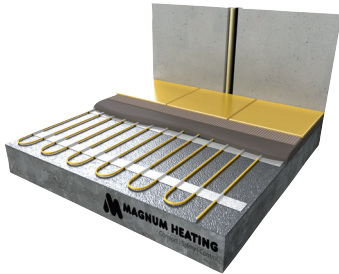
There is a solution for every heating demand.



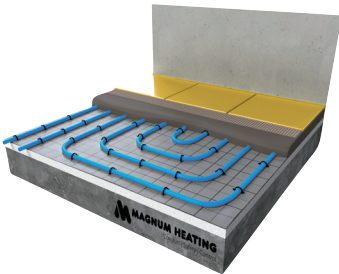


## New build

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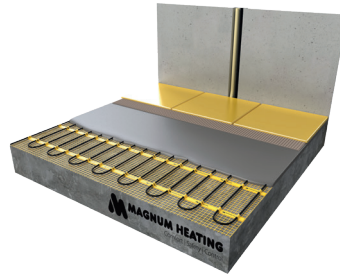
MAGNUM Cable



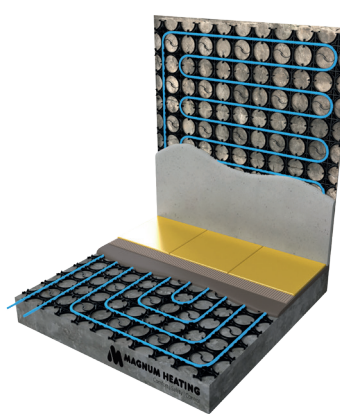
MAGNUM Tube

## Renovation

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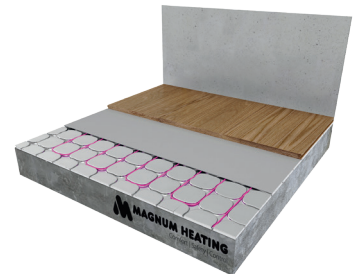
MAGNUM Mat



MAGNUM SlimFit

## Dry floor

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MAGNUM HeatBoard E



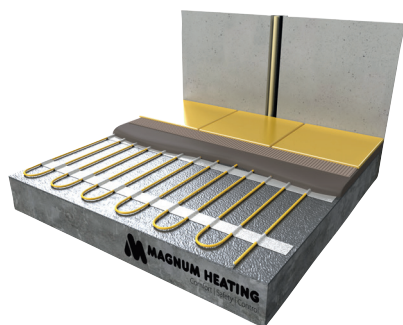
MAGNUM HeatBoard W

***“Good insulation is the key to an efficient functioning system.”***





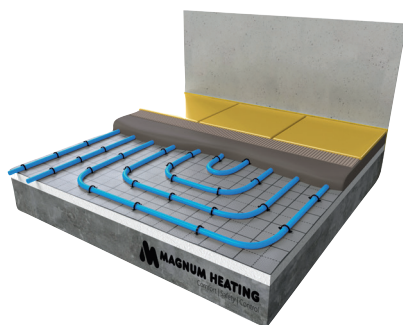
# New build



## MAGNUM Cable

The MAGNUM Cable has been specially developed for installation in cement screeds. The cable spacing determines the power per m<sup>2</sup>. This gives you the freedom to install more power (faster reaction, higher temperatures) or less power (for constant or low temperatures).

System type	Electrical
System height	7 mm
System width	Variable
Min. inst. hoogte	30 mm
Installation	Floor screed
Power	60 - 200W/m <sup>2</sup>
In wet areas	✓
Tiles	✓
Wood	✓
(PVC) Laminate	✓
Carpet	✓
Approvals	CE, VDE
Warranty	Lifelong <sup>(1)</sup>

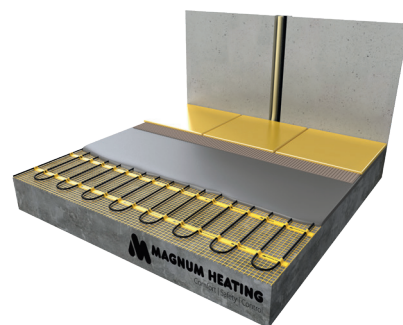


## MAGNUM Tube

The MAGNUM Tube underfloor heating pipe can be used in many ways in the floor. On tacker and stud plates, but also on a concrete net. This diffusion-tight tube has a lifespan of at least 50 years. Different types of distributors are available: from high quality stainless steel with or without pump to a plastic version that also allows floor cooling.

System type	Water-based
System height	10-18 mm
System width	Variable
Min. inst. hoogte	25 mm
Installation	Floor screed
Power	Variabel
In wet areas	✓
Tiles	✓
Wood	✓
(PVC) Laminate	✓
Carpet	✓
Approvals	CE, KOMO, MPA, SKZ
Warranty	50 year <sup>(2)</sup>

# Renovation



## MAGNUM Mat

The MAGNUM Mat is a unique underfloor heating mat. The system has been developed to be able to install underfloor heating over an existing tiled floor or on an already installed finishing floor. The mat is approx. 4 mm thin and can be taken into an adhesive layer without the need for demolition and milling. Even installation in the wall is possible.

System type	Electrical
System height	4 mm
System width	25 & 50 cm
Min. inst. hoogte	10 mm
Installation	Levelling compound
Power	125 of 150W/m <sup>2</sup>
In wet areas	✓
Tiles	✓
Wood	✓ (i.c.w. Self leveling compound)
(PVC) Laminate	✓ (i.c.w. Self leveling compound)
Carpet	✓ (i.c.w. Self leveling compound)
Approvals	CE, VDE

(1) See conditions on [magnumheating.com/guarantee](https://magnumheating.com/guarantee)

(2) Of which the first 10 years with consequential damage



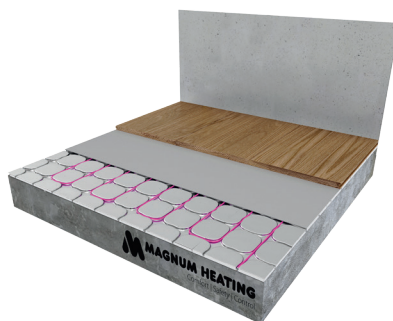
# Dry Floor



## MAGNUM SlimFit

With a mounting height from 12mm, MAGNUM SlimFit is one of the thinnest systems of its kind. Because of the low construction height, this system is extremely suitable for renovation projects and installation is possible on the floor as well as in the wall. The SlimFit system has been specially developed for installations with a 10mm MAGNUM Tube underfloor heating pipe.

System type	Water-based
System height	12 mm
System width	from 20 cm
Min. inst. hoogte	15 mm
Installation	Levelling compound / Floor screed
Power	Variabel
In wet areas	<b>V</b>
Tiles	<b>V</b>
Wood	<b>V</b> (i.c.w. Self level-ling compound)
(PVC) Laminate	<b>V</b> (i.c.w. Self level-ling compound)
Carpet	<b>V</b> (i.c.w. Self level-ling compound)
Approvals	CE, KOMO, MPA, SKZ
Warranty	50 jaar <sup>(2)</sup>



## MAGNUM HeatBoard E

MAGNUM HeatBoard E is directly applicable under wood, parquet or laminate. The MAGNUM HeatBoard Cable is simply clamped into the preformed cable ducts of the system boards. This thin underfloor heating system ensures a very even heating and is controlled by a digital clock thermostat with floor sensor.

System type	Electrical
System height	12 mm
System width	from 20 cm
Min. inst. hoogte	12 mm
Installation	Floating
Power	60 of 100W/m <sup>2</sup>
In wet areas	<b>X</b>
Tiles	<b>X</b>
Wood	<b>V</b>
(PVC) Laminate	<b>V</b> (PVC i.c.w. Duo-Board)
Carpet	<b>V</b> (PVC i.c.w. Duo-Board)
Approvals	CE, VDE
Warranty	2 year



## MAGNUM HeatBoard W

This 18mm thin waterborne system is directly applicable under wood, parquet or laminate. Only suitable for dry areas and ideal for renovation projects. The system boards can easily be put together as puzzle pieces. After this the 12mm MAGNUM Tube underfloor heating pipe can easily be clamped in.

System type	Water-based
System height	18 of 36 mm
System width	from 20 cm
Min. inst. hoogte	18 mm
Installation	Floating
Power	Variable
In wet areas	<b>X</b>
Tiles	<b>X</b>
Wood	<b>V</b>
(PVC) Laminate	<b>V</b> (PVC i.c.w. Duo-Board)
Carpet	<b>V</b> (PVC i.c.w. Duo-Board)
Approvals	CE, KOMO, MPA, SKZ
Warranty	2 year

# Full control. Even when you're not at home.

## Intuitive design

In the development of our thermostats, in addition to a lot of technical aspects, we take user-friendliness as our starting point. The smart MAGNUM MRC WiFi thermostat, for our electrical systems, is easy to program and operate. Equipped with step-by-step instructions for trouble-free setting of the desired times and temperatures.

## Cleverly controlled

The MRC calculates the heating time itself. All you have to do is enter the periods in which you want to have a warm floor. It gradually learns the ideal warm-up time of the floor and automatically adjusts its program accordingly. So if you set that you want the floor to be at 23°C at 7 in the morning, the thermostat will do the rest.

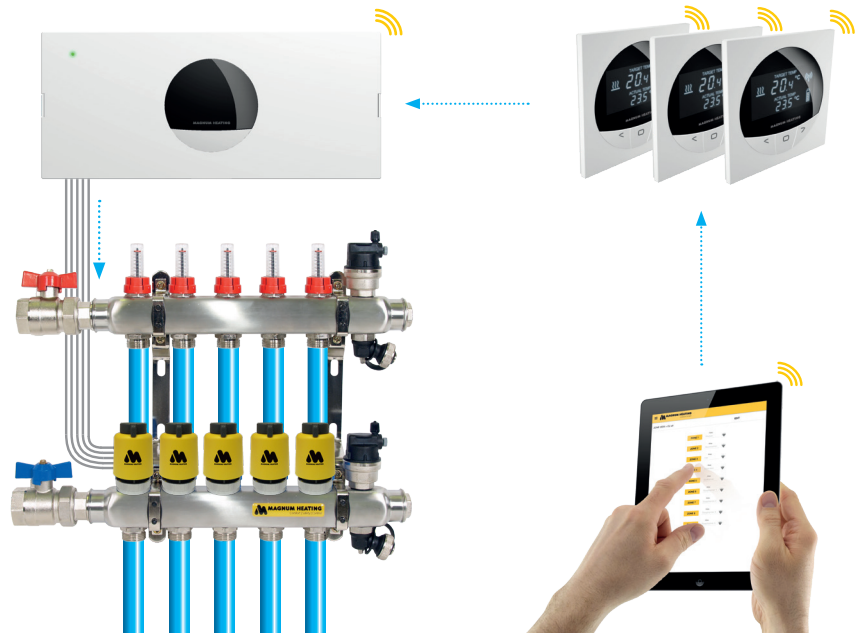




## Zone control

MAGNUM Remote Zone Control is a complete system for controlling your underfloor heating. The system consists of thermostats that can be hung in any room and a controller that is mounted at the distributor. Control the zones separately via the thermostat or via your tablet or smartphone. This allows you to set up the various zones in your home with the greatest of ease.

The MAGNUM W-Thermostat ensures precise control of the room temperature. With this clock thermostat you can adjust the temperature based on a series of programmed settings that come into effect at different times of the day.

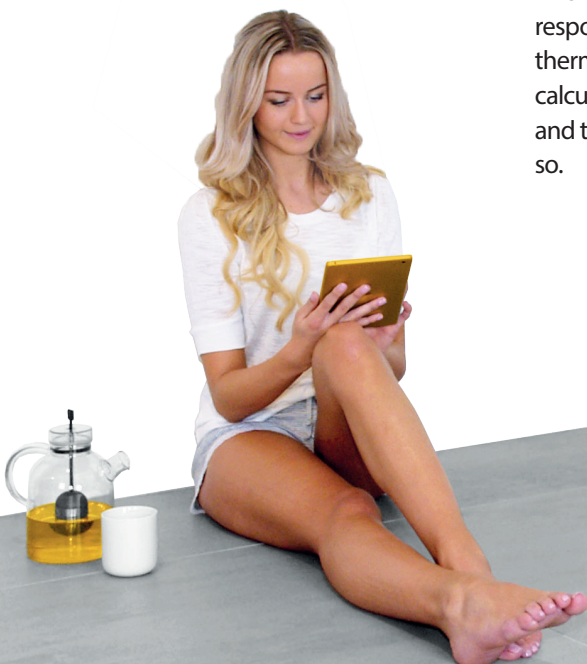


## Optimal precision

Our products are designed in view of the strongly changing climate in Europe where the outside temperature can fluctuate strongly within a few hours. This requires control equipment that responds quickly and accurately. Our thermostats think ahead themselves and calculate the required warm-up times and the amount of energy needed to do so.

Thanks to precise control, an optimal and comfortable living climate is possible everywhere. In addition, our systems can easily be linked to new or existing automation systems, so you no longer have to worry about them. Even when you're not at home.

MAGNUM thermostats have been developed in-house and are among the most reliable on the European market.



## Ceiling heating

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MAGNUM Sol ceiling radiant heaters can be installed in a suspended ceiling and offer maximum freedom in designing the interior of any office, showroom or shop. With the integrated suspension bracket, the panels can also be fixed directly to any other ceiling.

If you are looking for an extra source of heat in your bathroom, the MAGNUM Sol Premium ceiling radiant heaters are the solution. These panels have an IP54 standard and are therefore very suitable for wet rooms.

These ceiling radiant heaters heat everything within the radiation range in a very short time. This makes them ideal for rooms that do not have a continuous occupancy and need to be warmed up in a short time.



## A clear view

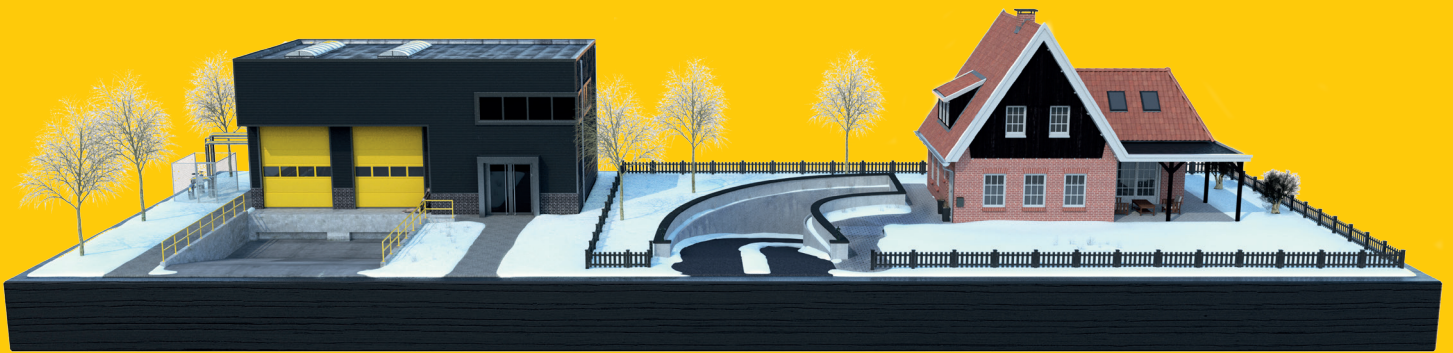
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Always a condensation-free mirror thanks to a very simple solution. MAGNUM Look electric mirror heating is stuck directly on the back of the mirror and is an indispensable addition to your bathroom, it prevents condensation from forming in “no time”.

Connect the mirror heating directly to the existing light switch and the heating element will only be switched on during your presence in the bathroom. This way you save energy!



# Safety first. Without compromise.

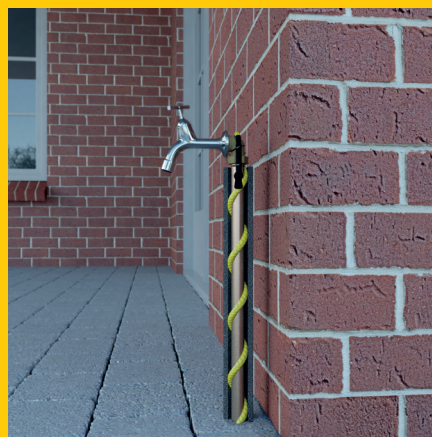


## Buitengewoon veilig

Safety, prevention and continuity are the key words that justify an investment in the construction of a frost-free installation. Especially for ramps and exits at an angle of inclination of distribution centres, car parks, hospitals, fire stations, office buildings, etc. The MAGNUM Outdoor system offers you safety and reliability

at minimum investment, consumption and maintenance costs.

The MAGNUM Trace range offers total solutions for keeping (water) pipes, gutters and drains frost-free. There is also a plug-in frost-free tape available with built-in thermostat.











# Prepared for a sustainable future.

## Know-How

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Over the past 3 decades, MAGNUM Heating has grown into a successful, market-leading and brand-oriented European designer, manufacturer and supplier of innovative electric and waterborne heating systems and related products. We have a continuous focus on innovation, supported by our customers.

## Sustainable

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Our systems have a very long lifespan and respond perfectly to the fundamental energy transition from fossil heating sources to sustainable climate solutions. We are continuously active to refine production and logistic processes in order to make our carbon footprint as small as possible.

## own manufacturing

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We manufacture and assemble most products ourselves in our own production departments. In this way, the process is kept in our own hands from start to finish and there is optimal quality control. This makes us the most reliable supplier of heating products.

## More information?

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Our products are available from any authorised E & W installer or bathroom specialist. They usually also advise and take care of the installation.

Would you like more information in the meantime?

Visit [magnumheating.nl](https://magnumheating.nl) or call 0166 - 609 300 during office hours.

