MAGNUM keeps you warm

Product catalogue
Indoor
MAGNUM has become market leader thanks to our smart range or high technology, extremely high quality products and our team of trained specialists. Outside the Netherlands our products are distributed by a carefully selected network of partners. Through continual investment in people, knowledge, training and product innovation, MAGNUM has been able to retain its leading position for many years now.

Business philosophy

Technology, continuity, reliability and service form the foundations on which the company was established in 1992. For more than 20 years we have been convinced that expertise, high quality technical materials and high levels of service is the only way in which products should be brought to market. Therefore our motto is: MAGNUM keeps you warm. This fits us like a warm glove!

Development

With the current structural engineering developments where enormous advances have been made specifically in the area of insulation, consumers are paying more attention towards having comfortable and healthy living environments. MAGNUM’s electrical heating system offers an ideal and affordable solution to meet all these demands.

Market leader

In this catalogue you will find out everything about the various MAGNUM indoor products as well all the possible applications. You will also find recommendations, handy tips and much more besides. MAGNUM also has innovative products designed for heating outside the house. You will find all the details in our Outdoor catalogue. Why not request a copy now via info@magnumheating.com.

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Thermal or infra-red energy is light that is invisible because the wave length is too long for the human eye and forms the part of the electromagnet spectrum that we experience as heat. Contrary to visible light, everything with a temperature above absolute zero radiates heat in the infra-red world. This is the source of our heat.

Infra-red energy

Infra-red heating or radiated heat works just like nature: Each day heat waves originating from the sun reach the walls of your house for example. The walls in turn store the heat that is then very slowly released. In the evening the ambient air cools down but you can still feel the heat coming from the walls. A hot stone massage for example, works on the same principle.

Radiated heat
An important feature of infra-red energy is that it had a yield of 100%, so that all the heat produced also ends up where it should be. There are no chimneys or piping to allow energy to escape.

100% yield

Noticeable difference

Because convected heat warms up the air and starts circulating it also stays longer in the room. Warm air rises so that the heat at the ceiling is significantly warmer than at the floor. Consequence: cold feet and a warm head. With radiated heat the warmth is released directly into the room and is more evenly distributed and can be appreciated sooner.
Floor heating provides the most comfortable way of heating a room. The evenness of the heat radiating from the floor surface creates very uniform heat distribution. The floor temperature very quickly reaches a comfortable level.

Wall heating

Electric wall radiators are ideal for rooms that are not occupied continuously, but must be brought up to temperature in a short period when needed. Moreover, designer glass panels and anti-condensation mirror heating are essential sources of heat in your bathroom.

Infra-red radiators

MAGNUM ceiling radiators heat everything and everybody within the heat range and in a very short warming up period. Ideal for rooms that are not occupied continuously, but must be brought up to temperature in a short period when needed.

Terrace heating

Whether in the spring or autumn, or even a chilly summer evening, the MAGNUM terrace heaters allow you to stay outside for even longer. They have a superb range and the heat can be felt as soon as they are switched on.
Water piping

Frozen water pipes often result in a lot of expense. The problems with freezing can very simply be avoided by fitting MAGNUM Ideal frost free ribbon along the piping - it is ready to plug in and fitted with an automatic thermostat.

Outdoors

MAGNUM also has innovative products designed for heating outside the house. It can also be used for heating accesses and ramps to car parks and garages. There is also garden path and roof channel heating, or for the more industrial applications such as pipe tracing, there are also products available. You will find all the details in our Outdoor catalogue. Why not request a copy now via info@magnumheating.com
Optimal comfort

Thanks to the highly precise digital control given by the advanced clock thermostats that can be operated very simply for making your preferred settings, optimal comfort and a perfect living climate can be enjoyed by everybody. Furthermore, MAGNUM heating systems can be very easily linked into new and existing domotic systems so that you having nothing more to bother about.

Maintenance free

Whether you go for MAGNUM floor, wall or ceiling heating, our systems are extremely energy efficient thanks to the highly accurate controls In additional they are completely silent and there are no maintenance costs. MAGNUM products are produced under very strict conditions by ourselves. They comply with the strictest European inspection requirements and therefore have a very long life-cycle.
Advantages

Combined with the accurate and efficient control systems, direct heat emission, extra long life-cycle and the possibility to regulate each room independently, electric heating systems provide the perfect heat source. This is certainly the case over the last few years during which the gas prices have risen dramatically, resulting in electrically heated rooms being equivalent to gas fired heated rooms with respect to running costs.

Hygienic

Heat waves move in all directions. Only a very small volume of the outside air is actually heated. Contrary to convection heating, there is much less movement of air and dust particles. Where hygiene plays an important role, e.g. care homes, hospitals, schools, colleges, etc, radiated heat is usually selected for this reason.

Sustainable

Combined with the accurate and efficient control systems, direct heat emission, extra long life-cycle and the possibility to regulate each room independently, electric heating systems provide the perfect heat source. This is certainly the case over the last few years during which the gas prices have risen dramatically, resulting in electrically heated rooms being equivalent to gas fired heated rooms with respect to running costs.
Custom-made

In principle, the standard programme offers sufficient possibilities to meet virtually every type of situation. Experience tells us that ready-made solutions are not always suitable. In such circumstances we can find a custom designed and manufactured solution.

Full Service

The wide range of heating systems and control mechanisms gives MAGNUM the possibility to reach or develop solutions for every type of heating problem. The delivery and installation of tracing, insulation, supply cables and switchboards, as well as testing and supplying the installation work, are all possible.

Projects
Advice

You can always get help and advice from our expert consultants for analysing problems and coming up with innovative solutions for your project. We are happy to collaborate with you in meeting challenges and to share our knowledge and experience.

Calculation

MAGNUM Calculation provides advice, engineering, calculations, offers, support, service and after-sales service. It may concern a simple access ramp, or a very complex control system for a large project, or the engineering for an entire plant with tracing, including circuit layout and AutoCAD drawings.

Help desk

Our help-desk is your contact point for all your enquiries as well as the more complex issues including: heat loss calculations, special requirements such as stabilising or heating pipes, managing critical temperatures and the application of differing supply voltages can all be provided.

Tests

We only want to supply top quality products, therefore all MAGNUM products are produced and tested to the ISO 9001: 2008 standard by the largest European testing bodies. Our products therefore comply with the highest testing requirements allowing us to offer you excellent guarantee conditions.
Applications

MAGNUM floor heating systems can be used in virtually every type of situation. Completely new building, renovations or even installation under wooden floors does not present a problem. In kitchens, living-rooms and bedrooms, bathrooms, sun-lounges, offices, etc.

MAGNUM floor heating is ideal for providing an addition source of heating. Bear in mind a minimum capacity of 150 watts per m². In certain circumstances, MAGNUM floor heating can also be installed as the main source of heating. Enquire about the possibilities or ask the calculation department for custom advice.

Products

Within this category there are four different MAGNUM floor heating systems available:

- MAGNUM Mat
- MAGNUM Cable
- MAGNUM Foil
- MAGNUM Perfotherm

All the floor heating systems (except the MAGNUM Perfotherm) are supplied with the advanced MAGNUM X-treme digital Control clock thermostat.

MAGNUM Mat

The MAGNUM Mat has been designed to be used on an existing tiled floor, or an existing, finished floor so that floor heating can still be installed there. The mat can be included in the layer of adhesive. It reduces the warming up time of the floor, as the mat is placed directly underneath the surface.
MAGNUM Cable

The MAGNUM Cable has been specially designed for installing in cement floors. The spacing between the cables determines the capacity per m². This gives you the freedom to apply more capacity (faster reaction time, higher temperatures) or indeed lower capacity (constant or low temperatures) when installing.

MAGNUM Foil

The MAGNUM Foil heating foil can be applied directly underneath wood, parquet or laminates. The extremely thin floor warming system (only 3 mm!) is controlled via a digital clock thermostat with a floor sensor. This provides very even heating and can be limited to a maximum temperature.

MAGNUM Perfotherm

The Perfotherm foil elements are laid over existing floors and can be covered with carpets. This creates a cozy and comfortable heating system. This is mainly aimed at the recreation sector and specifically for mobile homes, caravans and campers.

Floor heating
The MAGNUM Mat is a unique type of floor heating mat. The system has been designed to be used on an existing tiled floor, or an existing, finished floor so that floor heating can still be installed there. The mat is approximately 4 mm thick and can be included in a layer of adhesive without any demolishing or grinding. The mat fits virtually underneath the surface. This decreases the heating up time of the floor that also makes this system suitable for rooms that are not permanently occupied, including bathrooms, studies, playrooms, etc.

The advanced thermostat takes account of the required warming up period, so that your floor is always at the right temperature when you want it.

MAGNUM Mat is available in 22 different surface area sizes from 0.75 to 25 m². Because the heating cable connects through at the ends on the mat, the power supply cable is only on one side and invisibly secured by way of a unique connection. This means that a return to the thermostat is not required.
Technical details

Supplied as a complete set

• Heating mat
• MAGNUM X-treme Control thermostat including floor sensor
• Flexible tube for floor sensor
• Installation instructions & Check/Inspect card

Installation method

• Directly into the tile adhesive
• Self-equalising pouring mortar
• In plaster or mortar
• Anhydrite floors

Technical data

• EMC-free 2-conductor cable fitted to fibre-optic net
• 2.5 metre 3-core supply cable
• Fully encased in an aluminium earthed sheath
• Unique blind connection between the heating and the connection cable
• Chrome/Nickel resistance wire
• PTFE (Teflon) insulation
• PVC protective sheath
• 10-11 watts per metre resistance wire, 230 Volt.
• Cable diameter approximately 4 mm.
• Mat widths of 25 or 50 cm.
• Complies with current NEN standards for installation in completely wet rooms.

Guarantee

MAGNUM Mat has a life-long* guarantee covering the electromechanical operation of the heating mat and two years covering the thermostat and the floor sensor.

*See the guarantee conditions at: magnumheating.com/guarantee

<table>
<thead>
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<th>Part no.</th>
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<th>W per m²</th>
<th>Amperes</th>
<th>Ohms</th>
<th>Dimensions</th>
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</table>
The MAGNUM Cable has been specially designed for installing in cement floors. The spacing between the cables determines the capacity per m². This gives you the freedom to apply more capacity (faster reaction time, higher temperatures) or indeed lower capacity (constant or low temperatures) when installing. Installation is very simple because the cable can be shaped. It can be secured to the MAGNUM Isorol using Alu-tape and with dove-tail plates or tie-wraps onto the concrete net. Moreover, handy Spacer strips are available for fitting directly onto the floor.

The advanced thermostat takes account of the required warming up period, so that your floor is always at the right temperature when you want it. The lack of radiators on the walls provides optimal freedom for interior decoration and placing furniture.

**Example calculations for the cable distances**

To calculate the correct cable distance, divide the number of open m² of floor area by the total capacity of the set. The outcome should be multiplied by 17 (17 = watts per metre of cable stretched out). The first two numbers after the decimal point indicate the distance (spacing) between the cables in centimetres.

Some examples of additional heating:

500 watts cable at 3 m²: (166 W/m²)
(3 m²: 500 watts) X 17 W/m1 = 0.102
Install the cables at 10 cm apart from each other.

1000 watts cable at 7 m²: (142 W/m²)
(7 m²: 1000 watts) X 17 W/m1 = 0.119
Install the cables at 11 to 12 cm apart from each other.
Technical details

The cables are available in total capacities of 300 to 3300 watts, sufficient for surface areas between 2 and 30 m². Because the heating cable connects through at the ends on the mat, the power supply cable is only on one side and invisibly secured by way of a unique connection. This means that a return to the thermostat is not required.

MAGNUM Cable is supplied as a complete set.
Heating cable, MAGNUM X-treme Control clock thermostat, Floor sensor, Flexible tube for floor sensor, Securing tape, Installation instructions.

Technical data
• EMC-free 2-conductor cable
• Power supply cable 2.5 metres 3-core
• Unique blind connection between the heating and the connection cable
• Fully encaised in an aluminium earthed sheath
• Chrome/Nickel resistance wire
• XLPE insulation
• PVC protective sheath
• 17 watts per metre capacity, 230 Volt.
• Cable diameter: 7 mm.
• Produced and inspected in accordance with the IEC standards.
• NEMKO approved and CE standards within Europe.

Guarantee
MAGNUM Cable has a life-long* guarantee covering the electromechanical operation of the heating cable and two years covering the thermostat and the floor sensor.

*See the guarantee conditions at: magnumheating.nl/guarantee

Technical details
Installation using MAGNUM Spacer strips
Install on dovetailed steel reinforcement sheets

<table>
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<tr>
<th>Part no.</th>
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<td>720310</td>
<td>MAGNUM Spacer strips 10 metres</td>
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<td>720315</td>
<td>MAGNUM Spacer strips 15 metres</td>
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<td>MAGNUM Edging strips 10 m. x 5 cm.</td>
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<td>MAGNUM Isorol roll 25 m² - 3 mm. thick</td>
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<td>720501</td>
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Wood, parquet and laminate are all sustainable and attractive products that are increasingly used. The demand for a heating system for these floors has lead to the design of new, technologically high quality product. MAGNUM now offers a solution for these “dry” floors. The MAGNUM Foil heating foil can be applied directly underneath wood, parquet or laminates. The extremely thin floor warming system (only 3 mm!) is controlled via a digital clock thermostat with a floor sensor. This ensures very even warming up. The floor temperature be limited to a specific maximum temperature by way of a floor sensor and thermostat.

The advanced thermostat takes account of the required warming up period, so that your floor is always at the right temperature when you want it. The foil should be put on top of a 6 mm thin polystyrene insulation plate (MAGNUM Isofoam). This insulation plate ensures extra heat insulation and also has noise dampening properties.

MAGNUM Foil is very simply made to measure. Safe, comfortable and easy to use: MAGNUM Foil also provides a comfortable living and working climate on dry floors!
MAGNUM Foil is supplied as a complete set.
• Foil on a roll of 5, 10 or 15 m² (120 watts/m²)
• MAGNUM X-treme Control clock thermostat
• Sensor and flexible sensor tube
• Insulation tape
• Connection terminals
• Connection leads
• Clear step-for-step installation instructions
• Pressure distribution and crimping pliers

Ordered separately (depending on the number of m²):
• MAGNUM Isofoam, PS insulation plates, per pack 6 m².
• Damp-proofing foil

MAGNUM Foil is connected to 230V. Installation should be carried out by an approved electrician. MAGNUM Foil should always be used with MAGNUM polystyrene insulation plates (MAGNUM Isofoam, 6 mm), and covered with a damp-proofing foil (0.1 mm).

System testing

Guarantee:
10-year guarantee covering the electromechanical operation of the MAGNUM Foil and two years covering the thermostat and the floor sensor.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>MAGNUM Foil set 120 W/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>361005</td>
<td>5 m² (0.6 x 8.4 m) MAGNUM Foil set 120 W/m² *</td>
</tr>
<tr>
<td>361010</td>
<td>10 m² (0.6 x 16.8 m) MAGNUM Foil set 120 W/m² *</td>
</tr>
<tr>
<td>361015</td>
<td>15 m² (0.6 x 25 m) MAGNUM Foil set 120 W/m² *</td>
</tr>
<tr>
<td>361110</td>
<td>10m² (0.6 x 16.8m) MAGNUM Foil supplementary set 120W/m² without clock thermostat**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part no.</th>
<th>MAGNUM Foil for projects larger than 15m², in 80 &amp; 120 W/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>360080</td>
<td>MAGNUM Foil 80 W/m², 0.6 x ... metre (per m²)</td>
</tr>
<tr>
<td>360120</td>
<td>MAGNUM Foil 120 W/m², 0.6 x ... metre (per m²)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>720810</td>
<td>Foil pressure distribution and crimping pliers</td>
</tr>
<tr>
<td>730300</td>
<td>6 m² MAGNUM Isofoam, PS insulation, 6 mm, 8 items of 100 x 75 cm</td>
</tr>
<tr>
<td>720807</td>
<td>Damp-proofing foil 12 m², 4 x 3 metres, 0.1 mm thin</td>
</tr>
<tr>
<td>720815</td>
<td>Foil connection and linking set for 10 m² foil **</td>
</tr>
</tbody>
</table>

* Set includes MAGNUM Foil 120 watts/m², MAGNUM X-treme Control digital clock thermostat with floor sensor, flexible sensor tube, 2x15 m connecting wire black/blue, necessary crimp connectors, pressure distribution and crimping pliers, vulcanised insulation tape, PP tape, installation instructions.

** Set includes: 2x15 m connecting wire black/blue, necessary crimp connectors, vulcanised insulation tape, PP tape, flexible sensor tube.
MAGNUM Perfotherm

This system provides an attractive solution mainly in the recreation sector, and specifically for mobile homes, caravans and campers. By laying the simple, extremely thin Perfotherm foil elements onto existing floors, and then laying a carpet on top, a heating system can be installed that heats the floor to a comfortable level in a simple and convenient manner.

Attention: MAGNUM Perfotherm should only be used as an additional source of heating. There should also be another main source of heating available.
Technical details

MAGNUM Perfotherm floor heating foil is only 0.2 mm thick and 60 cm wide comes in lengths of 50 cm to 3 metres. Every floor element is ready to plug in and should be connected to a transformer. In order to prevent the foil shifting about, it can be secured using aluminium tape on the base.

The foil is completely perforated so that the materials below it and on top of it can continue breathing. Depending on the number of elements, and therefore the total installed capacity, a suitable transformer should be selected. This should be placed in a properly ventilated location. Using the 24-hour plug switch, it is possible to programme in the times for the transformer so that the required warm-up time can take account of the occupancy levels.

MAGNUM Transformers of 150, 300 and 500 VA have a 4-position switch for adjusting the floor temperature to the desired levels (0 - 22V - 24V - 28V), and depending on the insulation value of the floor, a temperature between 20 and 25°C can be set.

Guarantee
2-year guarantee on the electromechanical operation of both the Perfotherm foil and the transformer.

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Dimensions</th>
<th>Capacity</th>
<th>Amperes</th>
<th>Ohms at 28V</th>
</tr>
</thead>
<tbody>
<tr>
<td>300050</td>
<td>60 x 50 cm</td>
<td>31 watts</td>
<td>0.13</td>
<td>24.0</td>
</tr>
<tr>
<td>300100</td>
<td>60 x 100 cm</td>
<td>62 watts</td>
<td>0.27</td>
<td>12.0</td>
</tr>
<tr>
<td>300150</td>
<td>60 x 150 cm</td>
<td>93 watts</td>
<td>0.40</td>
<td>8.0</td>
</tr>
<tr>
<td>300200</td>
<td>60 x 200 cm</td>
<td>124 watts</td>
<td>0.54</td>
<td>6.0</td>
</tr>
<tr>
<td>300250</td>
<td>60 x 250 cm</td>
<td>155 watts</td>
<td>0.68</td>
<td>4.8</td>
</tr>
<tr>
<td>300300</td>
<td>60 x 300 cm</td>
<td>186 watts</td>
<td>0.81</td>
<td>4.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Capacity</th>
<th>Max voltage</th>
<th>Amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>400040</td>
<td>40 va</td>
<td>28 V</td>
<td>0.17</td>
</tr>
<tr>
<td>400080</td>
<td>80 va</td>
<td>28 V</td>
<td>0.34</td>
</tr>
<tr>
<td>400150</td>
<td>150 va</td>
<td>Adjustable 0-22-24-28V</td>
<td>0.65</td>
</tr>
<tr>
<td>400300</td>
<td>300 va</td>
<td>Adjustable 0-22-24-28V</td>
<td>1.30</td>
</tr>
<tr>
<td>400500</td>
<td>500 va</td>
<td>Adjustable 0-22-24-28V</td>
<td>2.17</td>
</tr>
<tr>
<td>410750</td>
<td>750 va</td>
<td>24 V</td>
<td>3.26</td>
</tr>
<tr>
<td>411000</td>
<td>1000 va</td>
<td>24 V</td>
<td>4.34</td>
</tr>
<tr>
<td>420750</td>
<td>750 V</td>
<td>28 V</td>
<td>3.26</td>
</tr>
<tr>
<td>421000</td>
<td>1000 va</td>
<td>28 V</td>
<td>4.34</td>
</tr>
</tbody>
</table>
Applications
MAGNUM wall heating systems can be used in virtually every type of situation. With new buildings, renovations, in kitchens, living-rooms and bedrooms, bathrooms, sun-lounges, offices, etc.

Products
Within this category there are four different MAGNUM wall heating systems available:

MAGNUM Look
• MAGNUM Glassheat
• MAGNUM Radiance Infra-red
• MAGNUM Marbel
MAGNUM Look

MAGNUM Look mirror heating always provides a clear view when shaving, cutting hair and doing the make-up. You no longer need to wipe the mirror with a towel to see yourself after showering or running the hot water tap.

MAGNUM Glassheat

These revolutionary panels take the technology of towel rails to a new level. The innovative flat panels are fitted with safety glass that warms up evenly over the whole surface. This ensures the ultimate comfort and the most effective way of heating a towel.

MAGNUM Radiance Infrared

MAGNUM Radiance Infrared is a wall radiation panel that is ideal for areas that are not continuously occupied and can be heated up to the right temperature within a short space of time.

MAGNUM Marbel

MAGNUM Marbel marble wall panels provide a natural source of heat. Made from carefully selected crystal marble these panel provide a pleasant level of warmth.
MAGNUM Look

MAGNUM Look mirror heating always provides a clear view when shaving, cutting hair and doing the make-up. You no longer need to wipe the mirror with a towel to see yourself after showering or running the hot water tap. MAGNUM Look is connected and simply switched on via the light switch and removes condensation in no time. Moreover, it prevents those ugly wipe marks left on the screen when trying to remove condensation. Connects directly to the lighting circuit in the bathroom and avoid unnecessary waste of energy.

MAGNUM Look mirror warming is a self-adhesive heating foil element that is applied directly to the back of the mirror. The elements are double insulated and can therefore be used in bathrooms (humid spaces). The capacity produces a rapid warm-up time of between 5 and 8 minutes. Within a short space of time the mirror has a temperature of approximately 40°C which dispels all condensation. The maximum possible mirror temperature is limited to approximately 50°C. This makes the product absolutely safe to the touch.
Technical details

Laying the foil
The mirror must not be damaged (e.g. broken edges, cut to size manually, etc) as cracking may occur when warming up because the differences in tension. A self-adhesive back is the best way of fixing the mirror to the wall. This should be applied directly onto the back of the mirror.

ATTENTION: The foil has very a very high adhesive strength so that it does not come off.

MAGNUM Look is supplied as standard with the following:
- Heating foil with self-adhesive back
- ±1 metre of connecting cable
- Installation instructions

Product details
- Thickness: 1 mm
- Voltage: 230 Volt
- Connection: 2-core, double insulated
- Standardisation: IP-34, class 2
- Testing: FIMKO, CE marking
- Temperatures: 40 to 50°C (depending on ambient temperature)

Guarantee
2-year guarantee on the electromechanical operation.

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Description</th>
<th>Dimensions</th>
<th>watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>310035</td>
<td>MAGNUM Look Mirror heating</td>
<td>Circular 35 cm.</td>
<td>50 watts</td>
</tr>
<tr>
<td>310029</td>
<td>MAGNUM Look Mirror heating</td>
<td>29 x 29 cm.</td>
<td>27 watts</td>
</tr>
<tr>
<td>310050</td>
<td>MAGNUM Look Mirror heating</td>
<td>36 x 50 cm.</td>
<td>50 watts</td>
</tr>
<tr>
<td>310058</td>
<td>MAGNUM Look Mirror heating</td>
<td>40 x 58 cm.</td>
<td>65 watts</td>
</tr>
<tr>
<td>310055</td>
<td>MAGNUM Look Mirror heating</td>
<td>50 x 58 cm.</td>
<td>70 watts</td>
</tr>
<tr>
<td>310075</td>
<td>MAGNUM Look Mirror heating</td>
<td>57 x 75 cm.</td>
<td>100 watts</td>
</tr>
<tr>
<td>310085</td>
<td>MAGNUM Look Mirror heating</td>
<td>58 x 85 cm.</td>
<td>120 watts</td>
</tr>
<tr>
<td>310110</td>
<td>MAGNUM Look Mirror heating</td>
<td>57 x 110 cm.</td>
<td>150 watts</td>
</tr>
</tbody>
</table>
These revolutionary MAGNUM Glassheat panels take the technology of towel rails to a new level. The innovative flat panels are fitted with safety glass that warms up evenly over the whole surface. This ensures the ultimate comfort and the most effective way of heating a towel.

In addition to the energy-efficiency, these panels provide extra comfort in the bathroom. The temperature can be programmed exactly to your requirements with the very accurate clock thermostat. Uniquely, the radiographic thermostat is supplied as standard, providing wireless contact with the heating panel. It can also be fitted anywhere in the bathroom.
The panel is easy to install using the brackets and fixing material supplied. The panels are available with either black or white glass and in 400 and 600 watt versions. The panels are ideal for total heating in combination with MAGNUM floor heating.

Every MAGNUM Glassheat is supplied as standard with the following:
- Fitting brackets
- Digital RF Thermostat
- ±1 metre of connecting cable
- Installation instructions

**Product details**

<table>
<thead>
<tr>
<th>Class</th>
<th>Class 2 - 230 V - IP X 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guarantee</td>
<td>2-years</td>
</tr>
<tr>
<td>Capacity</td>
<td>400 watts or 600 watts</td>
</tr>
<tr>
<td>Dimensions</td>
<td>48 x 84 x 14 cm of 58 x 109 x 14 cm</td>
</tr>
</tbody>
</table>

**Guarantee**

2-year guarantee covering the electromechanical operation of the foil and two years covering the thermostat.

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Description</th>
<th>watts</th>
<th>Dimensions</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>540400</td>
<td>MAGNUM Glassheat</td>
<td>400 watts</td>
<td>48 x 84 x 14 cm</td>
<td>Black</td>
</tr>
<tr>
<td>540401</td>
<td>MAGNUM Glassheat</td>
<td>400 watts</td>
<td>48 x 84 x 14 cm</td>
<td>White</td>
</tr>
<tr>
<td>540600</td>
<td>MAGNUM Glassheat</td>
<td>600 watts</td>
<td>58 x 109 x 14 cm</td>
<td>Black</td>
</tr>
<tr>
<td>540601</td>
<td>MAGNUM Glassheat</td>
<td>600 watts</td>
<td>58 x 109 x 14 cm</td>
<td>White</td>
</tr>
</tbody>
</table>
MAGNUM Radiance Infrared

MAGNUM Radiance Infrared is a wall radiation panel that is ideal for areas that are not continuously occupied and can be heated up to the right temperature within a short space of time.

They are very suitable for studies or playrooms which are only used from time to time each day and require extra heating, and the stylish Radiance Infrared panels provide a rapid, comfortable and energy-efficient solution. MAGNUM Radiance Infrared wall panels product convection heating in addition to radiated heating. The combination of warm air and infra-red heat waves provides optimal comfort in a very short space of time. Thanks to the low contact temperature and the rounded edges, it is the perfect source of heat when children are around. Thanks to the very simple wall installation and the integrated temperature regulation, the Radiance Infrared panels offer a quick solution for any type of demand for heating!
MAGNUM Radiance Infra-red panels are supplied as standard with an installation system. All types of rooms and spaces can be easily and quickly heated by simply boring four holes and plugging in to the socket.

MAGNUM Radiance Infra-red panels are available in capacities between 1000 and 2000 watts. The panels operate in a thermostatic and modulating manner which keeps energy consumption to a minimum. Moreover, the panels have a frost setting that can be turned on during the winter months.

Product details
Connection voltage 230V
IP-Class IP-24
Colour RAL 9016
Connecting cable approx 80 cm

Guarantee
2-year guarantee on the electromechanical operation.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Type</th>
<th>Capacity</th>
<th>Volts</th>
<th>Amperes</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>501012</td>
<td>Radiance Infrared</td>
<td>1000 watts</td>
<td>220/240 V</td>
<td>4.4</td>
<td>65.6 x 48 x 13 cm</td>
</tr>
<tr>
<td>501512</td>
<td>Radiance Infrared</td>
<td>1500 watts</td>
<td>220/240 V</td>
<td>6.5</td>
<td>80 x 48 x 13 cm</td>
</tr>
<tr>
<td>502012</td>
<td>Radiance Infrared</td>
<td>2000 watts</td>
<td>220/240 V</td>
<td>8.7</td>
<td>95.6 x 48 x 13 cm</td>
</tr>
</tbody>
</table>
MAGNUM Marbel

MAGNUM Marbel marble wall panels provide a natural source of heat. Made from carefully selected crystal marble these panel provide a pleasant level of warmth. Thanks to the high level of heat accumulation, this heat source is not only comfortable, but also extremely energy efficient. When combined with the MAGNUM X-treme Control digital clock thermostat the system provides the perfect living environment whenever it is required.

The marble panels are available in eight different colour ranges giving every interior attractive and functional decoration. A real treat for the eyes!

MAGNUM Marbel wall panels are made from natural marble stone. The heating cables are milled into the back of the panel. The high levels of heat accumulation in the marble panels ensure an especially energy-efficient source of heat also thanks to the combination of extra insulation at the back and thermostatic regulation. The marble panels have a very high useful heat yield and produce dark infra-red heat waves with a radiation range of approximately 4.5 metres. The panels are protected against overheating and thermostatically controlled.

Marble is a natural product. The above colours are indicative only. Therefore no rights can be derived.
Technical details

MAGNUM Marbel wall radiator panels are very simple to install. Every panel comes with an installation system as standard. Regulation is done via a simple on/off thermostat, or via a digital clock thermostat. MAGNUM Marbel radiator panels are finished as standard with an insulation plate fitted at the rear. This ensures optimal heat radiation.

Technical specifications
Available: 650, 850 and 1450 watts.
Connection voltage: 230 V/50Hz
Safety class: II, IP-25

Suitable temperature regulators
• MAGNUM X-treme Control digital thermostat 230V / 16 Amp.
• MAGNUM X Standard Control on/off thermostat 230V / 16 Amp.
• MAGNUM X RF thermostat 230V / 8 Amp.

Availability
Not held in stock, must be ordered in advance.
Delivery approximately 4 weeks.

Guarantee
2-year guarantee on the electromechanical operation.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Type</th>
<th>Dimensions</th>
<th>Volts</th>
<th>Amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>510050</td>
<td>MAGNUM Marbel marble panel 650 watts</td>
<td>100 x 40 x 3 cm</td>
<td>230 V</td>
<td>3.3</td>
</tr>
<tr>
<td>510090</td>
<td>MAGNUM Marbel marble panel 850 watts</td>
<td>100 x 50 x 3 cm</td>
<td>230 V</td>
<td>4.4</td>
</tr>
<tr>
<td>510140</td>
<td>MAGNUM Marbel marble panel 1450 watts</td>
<td>125 x 60 x 3 cm</td>
<td>230 V</td>
<td>6.5</td>
</tr>
</tbody>
</table>
Applications
MAGNUM terrace radiators can be used in virtually every type of situation. On terraces, patios, under the eaves and even in areas where direct heat is required such as in stores and workshops.

Products
Within this category there are three different MAGNUM products available:
- MAGNUM Sol
- MAGNUM Infraline Heater
- MAGNUM Arena

MAGNUM Sol
MAGNUM Sol ceiling radiator panels are easy to install into every type of system ceiling, or fitted directly onto the ceiling using the integrated suspension system.

MAGNUM Infraline
MAGNUM Infraline Heater is a long wave infra-red radiator. These heaters are specifically suited to factories, warehouses, workshops, showrooms, gymnasiums, etc. The panels are easily and simply installed flat against the ceiling or at an angle using the brackets supplied.

MAGNUM Arena
MAGNUM Arena terrace radiators were initially designed for the catering and industrial sectors, but are also useful in domestic situations. The radiators are ideal for using on terraces and perfect in the autumn or spring or even on those chilly summer evenings, allowing the stay outdoors to be extended.
Infra-red radiators
MAGNUM Sol

MAGNUM Sol ceiling radiators can be installed so that they are ‘invisible’ in a ceiling system and provide every type of office, showroom or shop maximum freedom regarding interior layout and design. The integrated suspension brackets also make it possible to secure the panels directly onto all sorts of ceilings.

The ceiling radiators heat everything and everybody within range, just like the sun shining down on the Earth. Plus the warming up period is very short! Ideal for rooms that are not occupied continuously, but must be brought up to temperature in a short period when needed and where there is lack of wall space.

MAGNUM Sol provides comfortable, natural and healthy radiated heat!

Various installation possibilities
Optional wireless control
MAGNUM Sol ceiling radiator panels are easy to install into every type of system ceiling, or fitted directly onto the ceiling using the integrated suspension system. Each panel has its own suspension system.

MAGNUM Sol ceiling radiator panels only produce radiated heat. The high intensity of the infra-red heat waves provides optimal comfort in a very short space of time.

The panels operate in a thermostatic and modulating manner which keeps energy consumption to a minimum. Control is via a simple on/off thermostat or even a wireless RF thermostat.

MAGNUM Sol is supplied as standard with the following:
• Suspension bracket
• ±0.5 metre of connecting cable
• Installation instructions

Technical specifications
Available 240 and 500 watts.
Connection voltage 230V/50Hz
IP-class IP-55
Colour RAL 9010

Guarantee
2-year guarantee on the electromechanical operation.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Dimensions</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>600331</td>
<td>MAGNUM Sol Type 240</td>
<td>59 x 59 x 4 cm.</td>
<td>240 watts</td>
</tr>
<tr>
<td>600661</td>
<td>MAGNUM Sol Type 500</td>
<td>119 x 59 x 4 cm.</td>
<td>500 watts</td>
</tr>
</tbody>
</table>

Options
- 827000 MAGNUM Standard Control on/off built-in thermostat
- 825800 MAGNUM X-treme Control digital built-in clock thermostat
- 838000 MAGNUM RF Basic - thermostat incl. RF receiver (8 Amperes)
- 838001 MAGNUM RF Advanced - digital clock thermostat incl. RF receiver (8 Amperes)
- 838002 MAGNUM RF Receiver - extra receiver for RF thermostats (8 Amperes)
MAGNUM Infraline Heater

MAGNUM Infraline Heater is a long wave infra-red radiator. These heaters are specifically suited to factories, warehouses, workshops, showrooms, gymnasiums, etc. Also providing extra comfort for terraces, sun-lounges and patios in the cooler days in spring and autumn. The heaters are easily and simply installed flat against the ceiling or at an angle using the brackets supplied.

ATTENTION: These infra-red radiators are only suitable for applications where there is good protection against the wind.
Technical details

MAGNUM Infraline Heater is supplied as standard with an installation system and is therefore very easy to fit. Controlling the heater can be done via an extensive digital clock thermostat, or an on/off thermostat and either built-in or wireless. This heater is not suitable for flush mounting.

Supplied with the following:
• Connection cable with euro-plug
• Mounting brackets
• Installation instructions

Technical data:
Capacity 1000 to 3200 Watts
Class IPX-4
Max. temperature 380°C
Safety Via max temperature limiting device
Indication LED
Radiation range Up to 90°
Connection cable 2 metres incl. euro-plug
Minimum height No less than 2.4 metres
Installation Directly against the ceiling or walls
Mounting angles 0° - 15° - 30° - 45°
Testing CE

Guarantee
2-year guarantee on the electromechanical operation.

Example calculation:
Heat requirement 100 watts per m²
Ceiling height 6 metres.
Result MAGNUM Infraline Heater 2400 watts

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Capacity</th>
<th>Volts</th>
<th>Amperes</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>661000</td>
<td>1000 watts</td>
<td>230V 50/60Hz;</td>
<td>4.3A</td>
<td>600 x 189 x 67 mm</td>
<td>3.7 kg</td>
</tr>
<tr>
<td>661800</td>
<td>1800 watts</td>
<td>230V 50/60Hz;</td>
<td>7.8A</td>
<td>1000 x 189 x 67 mm</td>
<td>6.2 kg</td>
</tr>
<tr>
<td>662400</td>
<td>2400 watts</td>
<td>230V 50/60Hz;</td>
<td>10.4A</td>
<td>1500 x 189 x 67 mm</td>
<td>8.8 kg</td>
</tr>
<tr>
<td>663200</td>
<td>3200 watts</td>
<td>230V 50/60Hz;</td>
<td>13.4A</td>
<td>2000 x 189 x 67 mm</td>
<td>11.6 kg</td>
</tr>
</tbody>
</table>

Supplied with mounting brackets
MAGNUM Arena terrace radiators were initially designed for the catering and industrial sectors, but are also useful in domestic situations.

The dark infra-red heat waves are ideal for using on terraces and perfect in the autumn or spring or even on those chilly summer evenings, allowing the stay outdoors to be extended. The heat yield is very high. At least 90% of the dark infra-red waves reach the ground and people standing within radiation range.

MAGNUM Arena terrace radiators suffer no losses through combustion processes of e.g. propane gas, resulting in a yield of 100%. The effect is immediately noticeable.
The terrace radiators are all absolutely safe while in use (protective grill), simple to operate, quick to install and mount. They should be fitted where they cannot be splashed with water at a minimum height of 2.5 metres (1500 watts) to a maximum of 4 metres (3000 watts). The MAGNUM Arena heat radiators cannot be built in flush because of the heat emission. Every heat radiator comes with a complete mounting system. If desired, the MAGNUM Arena can also be statically mounted.

**MAGNUM Arena is supplied as standard with the following:**
- Suspension bracket
- Protective grill
- Installation instructions

**Technical specifications**
Available in 1500 and 3000 watts.
Connection voltage 230 V/50Hz
IP-class IP-22 class 1 / EC
Colour Arena Black or White
Housing Enamelled steel and aluminium
Colour lamp Gold/yellow (red also optional)

**Guarantee**
2-year guarantee on the electromechanical operation.

### Table

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>621500</td>
<td>MAGNUM Arena 1500 watts black housing incl. gold-yellow lamp</td>
</tr>
<tr>
<td>621501</td>
<td>MAGNUM Arena 1500 watts white housing incl. gold-yellow lamp</td>
</tr>
<tr>
<td>623000</td>
<td>MAGNUM Arena 3000 watts white housing incl. gold-yellow lamp 2x gold-yellow lamps</td>
</tr>
</tbody>
</table>

#### Options

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>650000</td>
<td>MAGNUM Arena lamp 1500 watts RED</td>
</tr>
<tr>
<td>650002</td>
<td>MAGNUM Arena lamp 1500 watts GOLD-YELLOW</td>
</tr>
<tr>
<td>641050</td>
<td>Connection cable 10 metres, 3 x 2.5 mm² incl. plug</td>
</tr>
</tbody>
</table>
Applications

MAGNUM thermostats are supplied including floor sensors and can be situated virtually anywhere. From a simple on/off thermostat and an advanced digital clock thermostat, through to a wireless version with receiver.

Products

Within this category there are three different MAGNUM products available:

• MAGNUM X-treme Control
• MAGNUM Standard Control
• MAGNUM RF
MAGNUM X-treme Control

This stylish, colourful and refined digital clock thermostat has been specially designed for our electric floor heating systems.

MAGNUM Standard Control

A simple on/off thermostat with temperature regulation.

MAGNUM RF

Wireless thermostats including receiver. For adjusting the temperature remotely.
MAGNUM X-treme Control

MAGNUM proudly presents the new MAGNUM X-treme Control thermostat! This stylish, colourful and refined digital clock thermostat has been specially designed for electric heating systems. The MAGNUM X-treme Control is supplied with every MAGNUM floor heating set (mat, cable & foil types), including external floor sensor, a built-in air sensor and three different frames that suit most brands of switching equipment. The MAGNUM X-treme Control is simple and intuitive to operate by way of touch sensitive buttons under the display.

The new chameleon function is simple to adapt to the colour of your interior. The stylish screen-saver shows the time, temperature and current mode without touching the thermostat. The MAGNUM X-treme Control has a new help function that appears after 10 seconds in the menu with a complete description of the setting in question. The MAGNUM X-treme Control also has a wooden floor function whereby the temperature is limited to 28°C. This makes the MAGNUM X-treme Control the ideal and safe solution for every electric heating system.
Technical details

- Full-colour display
- Control via touch sensitive keys
- Chameleon function (8 colour themes)
- Screen-saver night clock
- Automatic start-up menu
- Intelligent and auto-adaptive
- Slow start-up function
- Wooden floor function (28 °C limit)
- Built-in help function
- Back-up function
- Automatic summer & winter times
- Multi-programme function (2 periods per day)
- Programming multilingual
- Including floor and air sensors
- Suitable for domotic systems
- Multi-frame adapter system for: Gira, Jung, Elko, Merten, Busch Jager, etc.

Technical data

<table>
<thead>
<tr>
<th>Frame</th>
<th>IP 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>230 Volt - 50/60 Hz</td>
</tr>
<tr>
<td>Temp. range</td>
<td>+5/+40 °C</td>
</tr>
<tr>
<td>Max. capacity</td>
<td>16A - 3600 watts</td>
</tr>
<tr>
<td>Testing</td>
<td>FI / CE</td>
</tr>
</tbody>
</table>

Guarantee

2-year guarantee on the electromechanical operation and floor sensor.

Part no. | Type
---|---
825800 | MAGNUM X-treme Control digital clock thermostats including floor sensor and three different frames
In some situations the digital regulation is not required and so the preference is for a simple on/off operation. Specifically industrial applications of where the heating must remain on at all times. Therefore MAGNUM has designed the Standard Control: a simple on/off thermostat with temperature regulation that is clearly easy to operate.

- On/off thermostat complete with temperature regulation
- Including floor sensor
- Integral room sensor and floor limit sensor
- Multi-frame adapter system for: Gira, Jung, Elko, Merten, Busch Jager, etc.

**Technical data**

- Voltage: 230 Volt - 50/60 Hz
- Max. load: 16A / 230 V
- Temperature range: +5/+40°C
- Housing: IP21
- Colour: Polar white (RAL 9010),
- Testing: CE

**Guarantee**

2-year guarantee on the electromechanical operation and floor sensor.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>827000</td>
<td>MAGNUM Standard Control On/Off Thermostat</td>
<td></td>
</tr>
<tr>
<td>863010</td>
<td>MAGNUM mounting frame for MAGNUM Standard Control</td>
<td></td>
</tr>
</tbody>
</table>
### MAGNUM RF Basic
Wireless non-programmable digital clock thermostat including MAGNUM RF Receiver.

#### Technical data
- **Display**: LCD
- **Operating range**: 0° to +40°C
- **Temperature range**: 5°C to +35°C
- **Power supply**: 2 x 1.5V AAA battery
- **IP-Class**: IP30
- **Frequency**: 868 MHz
- **Relay**: 8 Amperes
- **Maximum distance**: 100 metre outdoors, 30 metres indoors
- **Guarantee**: 2 years

### MAGNUM RF Receiver
Extra receiver for the RF thermostats. A maximum of six receivers can be connected to each thermostat.

#### Technical data
- **IP-Class**: IP30
- **Frequency**: 868 MHz
- **Power supply receiver**: 230V~50Hz
- **Relay**: 8 Amperes
- **Maximum distance**: 100 metres outdoors, 30 metres indoors

### MAGNUM RF Advanced
Wireless programmable digital clock thermostat including MAGNUM RF Receiver.

#### Technical data
Same as the RF Basic thermostat but with the following extras:
- Programmable blocks of 30 minutes
- Nine integral programmes
- Four programmable user programmes
- Automatic summer & winter times
- Auto-adaptive temperature control
- Child lock
- Low battery warning
- Memory retained even with flat battery

### Part no. | Type
--- | ---
838000 | MAGNUM RF Basic - Thermostat incl. RF receiver (8 Amperes)
838001 | MAGNUM RF Advanced - Digital clock thermostat incl. RF receiver (8 Amperes)
838002 | MAGNUM RF Receiver - Extra receiver for RF thermostats (8 Amperes)
Of course, the better the floor insulation, the better the heat yield, resulting in lower the energy consumption. MAGNUM therefore offers a smart range of insulation materials that especially suitable for the various floor heating systems because of their specific (structural) properties.

Applications

Within this category there are three different MAGNUM products available:

- MAGNUM Isorol
- MAGNUM Isoplate
- MAGNUM Isofoam
MAGNUM Isorol can be used as an underlay for the MAGNUM Cable (assuming their is sufficient structural strength with sprung floors).

MAGNUM Isofoam at only six millimetres is a very thin floor insulation manufactured entirely from recycled materials. Specially for MAGNUM Foil.

MAGNUM Isoplate makes it possible to introduce extra floor insulation where the structure height is very limited. For installing MAGNUM Mat.
MAGNUM Isorol

MAGNUM Isorol is an expanded polystyrene foam coated on one side with a metallised PET film 12µ. To be used as underlay for MAGNUM Cable (assuming their is sufficient structural strength with sprung floors). The floor base must be free of dust and grease and be smooth and dry. Unevenness greater than 2 mm/metres must be evened out. The underlay foil should be laid with the PET layer on top. The seams must be sealed with a special aluminium / polyester tape. The tape should be ordered separately.

MAGNUM Isofoam

MAGNUM Isofoam at only six millimetres is a very thin floor insulation manufactured entirely from recycled materials. The structure of Isofoam is formed from small enclosed cells that have excellent insulation properties. The special structure ensures that no heat is lead underneath, so that all the heat generated by the MAGNUM Foil heads for the surface of the floor.

MAGNUM Isoplate

MAGNUM Isoplate makes it possible to introduce extra floor insulation where the structure height is very limited. Because of the compression resistant properties of the insulation plates, a floor heating system (MAGNUM Mat) and a tiled floor can be laid directly on top using adhesive. MAGNUM Isoplate raises the insulating properties of the underlay and increases the yield and reaction times for the floor heating system that has been installed. The insulating properties result in lower energy consumption.
**Technical details**

**MAGNUM Isorol**

**Properties**
- Not sensitive to damp or moulds
- Excellent reflective and damp insulation properties (thanks to the metallised PET film).
- Easy to lay and cut.
- Very high mechanical strength.
- 100% CFK-free material

**Technical properties**
- **Density** min 15kg / m³
- **EPS foam** fire-resistant quality
- **Temperature range** -30 to +70 °C
- **Insulation value** 0.036 W/mK
- **Short-term compression strength with 10% distortion** 60kPa
- **Thermal shape stability**
  - transient 100°C
  - longer term at 5000 Pa 85°C
  - at - 20000 Pa 75-80°C

**MAGNUM Isoplate**

**Properties**
- Resistant to damp and rotting
- Fire-proof
- Very low moisture absorption
- Suitable for MAGNUM Mat

**Technical properties**
- **Fire resistance** DIN 4102 material class B1
- **Water resistance** water absorption >0.5% after 28 days
  - under water and in accordance with DIN 53 421
- **Temp. resistance** -30 to +70 °C
- **Insulation value** 0.035 W/mK in accordance with DIN 4108
- **Compression strength** > 0.20 N/mm² in accordance with DIN 52 615

**MAGNUM Isofoam**

**Properties**
- Lightweight
- Optimal noise reduction
- Excellent heat insulation
- Levels out small unevenness in floors
- Easy to lay and cut.
- Only 6 mm thick
- Suitable for MAGNUM Foil

**Technical properties**
- **Water resistance** 0.06% Temperature resistance -30 to +70 °C
- **Noise insulation**
  - Above floor - 5.6 dB
  - Under floor - 21 dB
- **Compression strength** 6t/m²
- **Insulation value** 0.0279 W/mK

---

**MAGNUM Isorol**

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>720500</td>
<td>Roll 25 m²</td>
<td>MAGNUM Isorol (3 mm) 25 m²</td>
</tr>
<tr>
<td>720501</td>
<td>1 m²</td>
<td>MAGNUM Isorol (3 mm) 1 m²</td>
</tr>
</tbody>
</table>

**MAGNUM Isoplate**

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>630112</td>
<td>3 m²</td>
<td>10 mm MAGNUM Isoplate, polystyrene hard foam, 5 plates 60 cm x 100 cm</td>
</tr>
<tr>
<td>630113</td>
<td>4.8 m²</td>
<td>6 mm MAGNUM Isoplate, polystyrene hard foam, 8 plates 60 cm x 100 cm</td>
</tr>
</tbody>
</table>

**MAGNUM Isofoam**

<table>
<thead>
<tr>
<th>Partno.</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>730300</td>
<td>Set</td>
<td>6m² MAGNUM Isofoam, PS Insulation, 6mm, 8 plates 100 x 75 cm</td>
</tr>
</tbody>
</table>
Outdoor Catalogue

The following pages give a concise preview of the MAGNUM Outdoor & Tracing products. You will find all the details in our Outdoor catalogue. This contains all the specific technical details and full explanation.
Download it from our website or request a copy now from: info@magnumheating.com

Applications

Safety, prevention and continuity are the key words that justify the cost of laying a frost-free installation. Specifically for angled access slip roads in distribution centres, multi-storey car parks, hospitals, fire stations, office buildings, etc. In other words: wherever operational safety is put in doubt during the winter period, the MAGNUM Outdoor concept can offer safety and reliability at the minimum cost, for both the initial investment and the running and maintenance costs.

Products

Within this category there are three different MAGNUM products available:

• MAGNUM Outdoor
• MAGNUM Ideal
• MAGNUM Tracing
Outdoor applications

MAGNUM Outdoor
This programme offers a complete range for keeping ramps and access paths, etc, free of snow and ice and also includes the control box and sensors.

MAGNUM Ideal
The MAGNUM Ideal frost free ribbon delivery programme has been specially designed for keeping piping, taps, discharge pipes (not plastic) from freezing.

MAGNUM Tracing
MAGNUM Tracing self-regulating cables are available either on a drum or per metre. Crimp insulation sets, connecting cables, T-junctions, wiring sensors and thermostats are available separately.
In many situations outdoor taps and pipes must be shut off in winter in order to avoid becoming frozen. MAGNUM offers a much simpler solution: MAGNUM Ideal frost free ribbon means that frozen and leaking pipes are a thing of the past! The MAGNUM Ideal frost free ribbon delivery programme has been specially designed for keeping piping, taps, discharge pipes from freezing.

The problems with freezing can very simply be avoided by fitting the Ideal band along the piping - it is ready to plug in and fitted with an automatic thermostat. Once the pipe insulation has been applied, it is not only safe, but extra expenses for repairing water pipes and also damage from leaking pipes is avoided. For installation on plastic piping should first be wrapped with aluminium tape before the cable can be applied in full.

MAGNUM Ideal frost free ribbon (with a 2 metre connecting cable with earthed plug) comes complete with a bi-metal temperature regulator. MAGNUM Ideal frost free ribbon is available in lengths of 1 to 48 metres. The heating band is switched on at temperatures below +5°C and automatically switches off when the temperature exceeds +13°C.
MAGNUM Ideal can very easily be applied to metal piping (not plastic) using aluminium tape or plastic tie-wraps. For installation on plastic piping should first be wrapped with aluminium tape before the cable can be applied in full. MAGNUM Ideal should always be used in combination with a (polyethylene) pipe insulation that has a minimum thickness of 10 mm. This gives optimal protection and insulation, thereby warranting energy-efficient operation.

MAGNUM Ideal is supplied as standard with the following:
- Heating cable, complete with plug and 2 metre of connecting cable
- Integral bi-metal thermostat.
- Installation instructions
- PVC tape

**Technical details**

- **Capacity**: 10 watts per metre length / 230 Volt.
- **Connecting cable**: 2 metres with earthed plug
- **Class**: IPX7

**Guarantee**

2 years on the electromechanical operation of the cable.

**Technical details**

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Length</th>
<th>Capacity</th>
<th>Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>155001</td>
<td>1 meter</td>
<td>10 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155002</td>
<td>2 meters</td>
<td>20 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155004</td>
<td>4 meters</td>
<td>40 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155006</td>
<td>6 meters</td>
<td>60 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155008</td>
<td>8 meters</td>
<td>80 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155010</td>
<td>10 meters</td>
<td>100 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155014</td>
<td>14 meters</td>
<td>140 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155018</td>
<td>18 meters</td>
<td>180 watts</td>
<td>230V</td>
</tr>
<tr>
<td>155022</td>
<td>22 meters</td>
<td>220 watts</td>
<td>230V</td>
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<tr>
<td>155026</td>
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</tr>
<tr>
<td>155048</td>
<td>48 meters</td>
<td>480 watts</td>
<td>230V</td>
</tr>
</tbody>
</table>
Outdoor programme overview:

- Loading dock
- Stairs
- Access path
- Pipework
- Flat roof
- Drainpipe
Download it from our website or request a copy from: info@magnumheating.com

Driveway

Footpath

Terrace

Gutter

Water pipe

Olive tree