

CNT Heating



Electric Carbon Nano Tube (CNT) heating, is a very special heating product. A product that looks like a roll of paper, but is not what it seems! The material CNT is an ultra-thin layer of carbon substance that is sprayed onto a carrier. These CNTs conduct electricity 1000 times better than copper, so significantly less energy is required for heating. The heating works at 230 volts or at 24 volts and is available as wall panel and floor, wall and ceiling heating. The applications are endless and are in line with the world movement towards all electric solutions!

Sustainable

The product has many advantages. It is sustainable and cheaper (to use) than central heating or traditional heaters. The product is indestructible, has a very quick heating time and does not require

any maintenance. Also important is its simple assembly instructions. No matter how handy you are, everyone can apply the CNT with just a few instructions. The wall heating can be applied underneath wallpaper, latex or plaster. It is easy to fasten the panels onto the wall. The advantage of the short heating time is that you will only heat the rooms that you want to heat! This flexibility will save a huge amount of energy and therefore money. You can control it with a thermostat or app.

Potential

Potential customers for CNT heating are housing corporations, contractors and progressive installation companies. In addition, constructors of tiny-houses, caravans, large industrial halls and parties in the outdoor sector have become interested in the meantime. Interest has also been shown by energy suppliers, In the Netherlands, Austria, Romania, Turkey and Switzerland,

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Stronger than steel and lighter than a spring, Carbon-Nano-Tubes (CNT) have the potential to cause a revolution in the heating world.

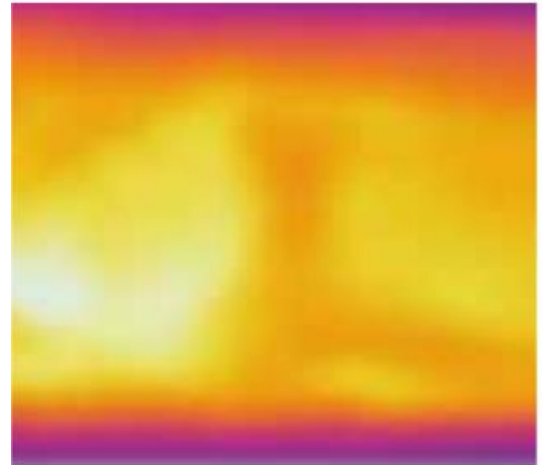
The carbon particles, the size of 1 billionth meter, conduct electricity 1000 times better than copper. They are applied to whole to form thin resistors that act as a heat conductor.

These resistors are capable of converting electrical energy in heat with an efficiency of almost 100% with an infrared radiation component (IR) of 97%. Our CNT-IR systems are therefore more than 40% more efficient than the standard electrical used heating systems. The CNT Heating systems work on 24 Volt.



Benefits for the customer:

Low consumption compared to conventional systems
No power loss
Very simple installation
No boiler, pipes and radiators needed
Easy to combine with solar panels
Healthy infrared heat
No electrosmog
No or less whirling dust; anti-allergenic room climate
Temperature can easily be regulated per segment
Via thermostat or via the app
No maintenance
24 volt which makes it very safe
Pierceable, cut off etc. without damage
10 year warranty
Only 0.5 mm thick



Tempature profile

Application options:

New construction
Renovation
As a complete
heating or additional heating

Wall Heating

24 volts

The CNT-IR wall heater is a full-fledged one heating. This wall heating is economical, safe, user-friendly, flexible and extremely comfortable.

The heating is easy to process under the stucco sheet, the wallp wall heating you immediately benefit from a complete new type of heating. The thin heat paths of only half a millimeter wallpaper on the wall.

The cables are then connected and back or in the plinth. Finally or paper. The heat paths disappear the sight. Conventional, spa have become redundant. The heated wall provides a comfortable home and office. With this you enjoy a pleasant,

natural and healthy radiant heat.

The wall heating

is easy onto bring is economical

and becomes approx. 30 degrees hot!

**SAFE AND SIMPLE**

Specialists such as painters, wall hangers, interior decorators, plasterers and carpenters install the heating jobs effortlessly and in a short time!

Electrical expertise is not necessary, because the plug of

the heating control can be immediately grounded socket. The heating jobs work on 24V low voltage. Assembly and use therefore risk-free and it is possible for example to attach paintings etc. to the heated wall. You can simply drill through the heating, without losing its effect.

(under)floor Heating

24 volts

Because the CNT-IR floor heating is only 0.5 mm thick, it is often used in the renovation of old buildings and in the construction of new homes and offices.

With our underfloor heating, the floor becomes even heated to about 30 ° C. Our underfloor heating works in a way similar to that of a traditional one underfloor heating with hot water or electricity. The installation of our system is only much easier and considerably cheaper. The system can also be retrofitted be mounted, which is practically no longer possible with traditional underfloor heating systems. Another advantage is that the CNT floor heating warms up very quickly becomes a nuisance "after-time effect". In addition it is no problem if it is being drilled through; the system remains simple intact!

All top floors that the manufacturer has designated as "Underfloor heating" and have a heat transfer resistance of less than 0,17 m² K / W, without problems as a floor covering on top of ours

underfloor heating system. Especially parquet, laminate (floating or fixed), linoleum and tiles are suitable for this. Top floors with integrated sound insulation or carpet that does not allow heat, are not suitable. The optionally supplied bottom sensor, which is placed in the bottom, monitored and controlled always the maximum permitted temperature of the soil.

We recommend that you warm your rooms comfortably to request energy values. Depending on this values and your heat requirement, can easily be calculated how much power is needed to create a comfortable temperature. Generally means this that there on 80% of the free floor area (where no furniture stands on) heat paths are laid out.



COMFORTABLE AND HEALTHY

Just like sun rays, the radiant heat heats up surface of the objects in the spaces evenly. A simple example shows how that works: Imagine a relatively cold day in the open air. First you are you in the shade and then in the sun. The heat of the Sun rays are immediately palpable and very pleasant the skin, although the ambient temperature has not changed. Heating the CNT-IR heating systems actually in the same way as the sun. That is why comfort temperatures reached faster. With infrared heat people feel at room temperatures of 18 to 20 ° C comfortable. This is also good for health: the room air remains cool, is not dry and does not rise pushed. A pleasant indoor climate is created where everyone profit of but mainly because of people with an allergy can breathe more freely. Infra-red heating ensures uniform heating of the walls and objects throughout the room. This will be prevent condensation. That means no breeding ground is for mold and that damp walls fast dry walls get dry quickly.

CNT-IR 24 volt

RELIABLE AND ECONOMICAL

The energy efficiency of this electric heating system is special high. The energy that is fed into the heat paths is immediately converted in heat, without loss of power and without producing CO₂. The heat paths are immediately behind the wall, floor or ceiling coverings, whereby the desired temperature is quickly realized. This will heat you simply select only the segments that need to be heated. This dynamic heating behavior saves energy and money. If the electric heating then also working on green electricity, you get a heating solution today already meets the needs of tomorrow. The low-voltage technique of 24 Volt is absolutely harmless and allows the heat paths without any risk to be placed under wall, ceiling and floor coverings.

POWER REQUIREMENT IN WATT PER M2

Rooms without floor insulation or with poor floor insulation have more heat and a longer reaction time required. We always advise you to insulate the floor before the heating is installed.

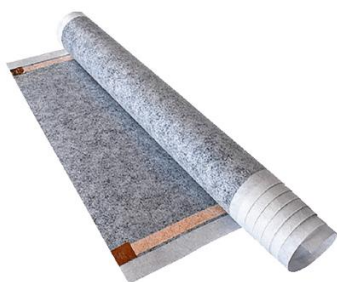
Energy-efficient house.....	40W/m ²
Energy-saving (insulated) house.....	60-80W/m ²
Old building (non-isolated house).....	120W/m ²

Contact information

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MADE IN
EUROPE

