

*Comfortable and energy-smart  
underfloor heating!*

**EBECO** ®

heating solutions



# **THE UNDERFLOOR HEATING CATALOGUE**





We label our most energy-saving products with the butterfly symbol.

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*Underfloor heating you can rely on!*



*Our most popular system.*



## *Warm feet, cool head*

Only with underfloor heating, you can get the optimum heat distribution which is best for humans. It also enables you to turn the heating down a couple of degrees and thus reduce your electricity consumption - without compromising on comfort.

# HEATING THAT WORKS MIRACLES

*At Ebeco, we have been involved with underfloor heating for over 30 years. This might not seem much compared with the ancient Romans, who were the first to enjoy warm floors. However, when it comes to modern, energy-efficient underfloor heating systems, we are experts in most areas. And we are happy to share our knowledge. We have therefore produced this catalogue. You undoubtedly already know how nice it is to place your feet on a warm floor. But are you aware of all the other benefits that underfloor heating delivers?*

## OPTIMUM HEAT DISTRIBUTION

If your feet are warm then your whole body feels good. The optimum heat distribution for humans is warm feet and a cool head. We feel best with 18 to 20 degrees at head height and 23 to 24 degrees at foot level. Only underfloor heating can provide precisely this heat distribution.

## LOWER THE TEMPERATURE, SAVE ENERGY

With the right heat distribution it is possible to lower the temperature by a few degrees and still maintain an agreeable climate as the heat is provided at the right place. A few degrees lower temperature delivers substantially reduced energy consumption. *We know that energy consumption is important to you - read pages 10-11.*

## PLEASANT WARMTH

Underfloor heating is a low temperature system. The heating cable's surface temperature is very low compared with, for example, the surface of a radiator. However, the surface is that much bigger. It is therefore still sufficiently warm in the room but with no hot, stale air.

## EVEN TEMPERATURE DISTRIBUTION

Radiators are usually located below windows to counteract down draughts etc. As heat rises, a circulation effect is produced that makes it warmest below the ceiling and coldest on the floor. With underfloor heating, the warmth is at your feet, distributed over a large floor surface. It also means that the warmth is distributed evenly in the room.

## STYLISH, PRACTICAL AND SILENT

With underfloor heating you avoid ugly, dust-collecting radiators and pipes. You can arrange the furniture as you like, without having to think about whether the sofa is blocking a radiator. Moreover, it is a heating system that makes no noise.

## CLEAN AND HYGIENIC

As the air circulates less there are less dust particles swirling around. You obtain a better indoor environment, which is extra important for people who have allergy problems. A warm floor is also a dry floor. A warm floor is practical in the hall, where people are frequently tramping in with wet shoes, boots and umbrellas. It's wonderful to have a floor in the bathroom that dries quickly after a shower. And above all - a dry floor is not a breeding ground in which mites and other allergenic organisms can grow.

*We provide a 10 year guarantee on our underfloor heating. You can read about it on page 23. You can trust Ebeco.*



# What is

# ELECTRIC UNDER-FLOOR HEATING?

Read more on pages 10-11

*How does electric underfloor heating actually work? When is it appropriate and how safe is it? Consider the following before deciding which heating system is most suitable for your home.*

## **HOW DOES IT WORK?**

The heat in our underfloor heating systems comes from electricity via heating cables installed in coils across the floor area. A thin layer of filler is placed on top of the underfloor heating coils to obtain a level surface on which the floor is laid. For a proper energy-efficient system, an insulation board is always laid below the heating cable. The temperature is usually individually controlled in each room with a thermostat located on the wall.

## **WHEN IS ELECTRIC UNDERFLOOR HEATING APPROPRIATE?**

An electric underfloor heating system is a complete heating system. No supplementary heat sources are needed in rooms where it is installed. Electric underfloor heating is particularly suitable when undertaking refurbishment and constructing extensions. It is a simple, fast, cheap and insulated installation compared with many other heating systems that require greater intervention. Furthermore, the investment cost is low. Compared with, for example, waterborne underfloor heating, the build-up height is also lower, which is often a major benefit when refurbishing.

Electric underfloor heating is an efficient source of heat. It is highly efficient with low carbon dioxide emissions. Our [Energy Saver-products](#) give you a fast system that is only used when it is actually needed. In combination with a green electricity contract, you have a clean heat source with minimum environmental impact.

## **FLEXIBLE**

Electric underfloor heating is a perfect option if you want a flexible heating system. Other heating systems are often turned off during the warm period of the year. This means, for example, that tiled floors in bathrooms and other rooms are cold during the summer months. With electric underfloor heating you can choose which areas are to remain warm and dry all year round. It is also possible to add electric underfloor heating on top of a waterborne underfloor heating system in rooms such as bathrooms or halls. It is then simple to change to electric heating during the summer months.

## **FAST**

Electric underfloor heating is installed at the surface, which means a fast system as the air in the room is quickly heated. With a fast system and good control, it is possible to take more advantage of additional heat from external sources such as heat from an oven or sunlight. A fast system equals an energy-saving system.





*“A fast system =  
an energy-saving system.”*

### **RELIABILITY**

Ebeco's cables are very durable. In the unlikely event a heating cable breaks, highly effective equipment is available to trace the fault. It might be found above the floor covering and all that is required is to pull up a few ceramic tiles to repair the cable. As it is very reliable and easy to regulate, electric underfloor heating is a flexible and secure system.

### **10 YEAR GUARANTEE.**

It is important to us that you feel safe with Ebeco underfloor heating. We therefore provide a 10 year guarantee on all our underfloor heating packages. The same guarantee covers everything - including the thermostat. The guarantee also covers peripheral costs if you really have bad luck. Our condition is that the product must be installed correctly by a qualified electrician and that the guarantee certificate is completed and signed. If you have any problems - contact us and we will assist you!

# HEAT FOR ALL ROOMS & FLOORS

*Underfloor heating can warm up everything from a small bathroom to an entire house. However, depending on conditions, substrate and flooring material, there are various factors that you need to take into account.*

## POWER REQUIREMENT FOR DIFFERENT ROOMS

The power requirement varies for different rooms. Tiled and stone floors generally require underfloor heating with a higher output than wooden and laminate floors. Another guideline is that small rooms require a higher output per square metre than large rooms. The room's insulation and number of external walls also affects the power requirement. The output can be increased or decreased depending on how densely the heating cable coils are laid. If you are uncertain of which output you should select, it can be a good idea to select a higher output, as you can then control the system using the thermostat. It is the control using the thermostat that determines how much electricity is used, and not the power output installed.

TYPE OF FLOOR/ROOM	RECOMMENDED OUTPUT
Tiled/natural stone	100-120 W/m <sup>2</sup>
Wood/laminate/ plastic floor covering	65-75 W/m <sup>2</sup>
Conservatory	130-160 W/m <sup>2</sup>

## TILED FLOORS

Tiled and natural stone floors are common in halls, kitchens and bathrooms. The ceramic material's excellent conductivity means that without underfloor heating we experience the tiles as cold. At the same time, it is precisely this conductivity that enables the heat from the underfloor heating cable to be rapidly spread across the entire floor. The better insulated the floor is underneath, the faster (and thereby more energy-efficiently) the heat is dispersed. We therefore recommend that you always install a system with our insulation boards for underfloor heating, even if you have a well insulated home.

We recommend: **CABLE/THERMOFLEX KIT + INSULATION**

## BATHROOMS

Bear in mind that there must always be an approved sealing layer below floors in wet rooms, regardless of whether you have underfloor heating or not. The underfloor heating is always laid under the sealing layer, and is thus in the dry part of the floor. There are clear industry regulations for working in wet rooms and sealing layers that must be followed. All the most up-to-date rules are available on Bygggeramikrådet's [P1](the Swedish Structural Tile Council) website.

## CELLARS

Here it is especially important to insulate properly when installing underfloor heating. Our modern insulation boards are effective, thin and flexible. They ensure that the heat is reflected upwards and keep out the cold from underneath. Furthermore, they prevent what is called reverse moisture migration. Installing underfloor heating directly onto a concrete floor in an uninsulated cellar is not a good idea. The heat disappears down into the concrete slab and your energy consumption increases.

We recommend: **CABLE KIT 300 + CABLE BOARD**

## CONSERVATORIES

Underfloor heating is an excellent solution for extending the season in the conservatory. It provides effective heat distribution with less floor draughts, and compared with infrared heating you obtain constant warmth regardless of where in the room you are sitting. A heating cable can be either embedded directly in a new floor or laid in an existing floor, depending on what is most suitable for you. Bear in mind that conservatories place higher requirements on the underfloor heating system compared with heating indoors. Most importantly, a higher output is required for the heating to be adequate, approx. 130-160 W/m<sup>2</sup>.

We recommend: **CABLE KIT 300/MULTIFLEX 20**



*“Having underfloor heating works extremely well even under wooden floors”*

## WOODEN FLOORS

Underfloor heating works extremely well, even under wooden floors in living rooms and bedrooms. We have an underfloor heating system that is specially designed for wooden floors. It has an extremely low build-up height and an output that is adapted to the sensitive wood material. Recommended output under wooden floors: 65 W/m<sup>2</sup>.

Our thermostats have built-in protection against overheating. However, avoid placing thick rugs, mattresses etc. on the floor for long periods as there is a risk of the blocked heat drying out the floor. Beech and maple are particularly sensitive to changes in temperature and dampness. It is therefore a good idea to select another kind of wood.

We recommend: *FOIL KIT + EBISOL*

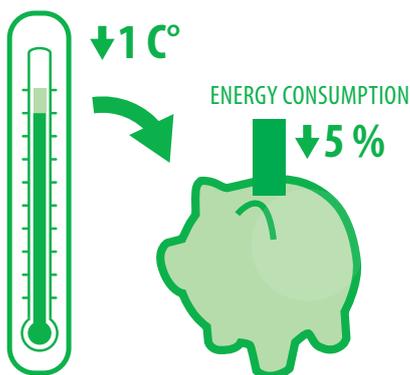
**EBECO**   
**ALL FLOORS**

# ENERGY-SMART UNDERFLOOR HEATING SYSTEMS

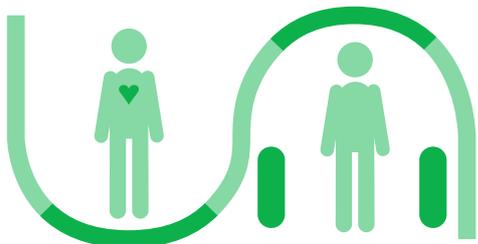
We know that energy consumption is important to you. That's why we develop underfloor heating systems that make it easy for you to economise on energy and still enjoy the cosy feeling that underfloor heating gives. We have produced the Energy Saver label to guide you to our most energy-efficient products. Using smart control and effective insulation, our Energy Saver system delivers much lower energy consumption than traditional underfloor heating. Allow us to explain how it works!



We have produced the symbol to label our most energy-saving products. Keep a look-out for the butterfly and save energy!



The cheapest energy is what you don't use. For every degree you can lower the temperature you are saving money.



The optimum heat distribution that underfloor heating provides, with warm feet and a cool head, allows you to reduce the temperature a couple of degrees and still retain the pleasant feeling.



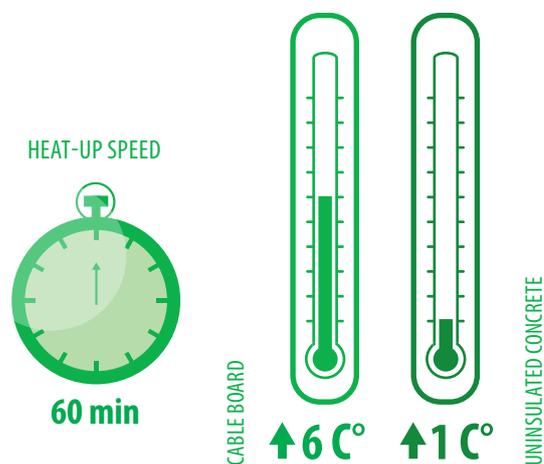
If nobody is at home, or everybody is asleep, the heat can be reduced by at least a further 5 degrees with no problem. Our [EB-Therm 355/205](#) thermostats can take care of it automatically. You use the Energy Saver program to tell the system how high or low the temperature should be at a range of times, so-called events.



Our thermostats have an adaptive function that takes account of the heating-up time prior to each event and ensure that the temperature is increased in time. The shorter the heat-up time, the later on the temperature can be raised.

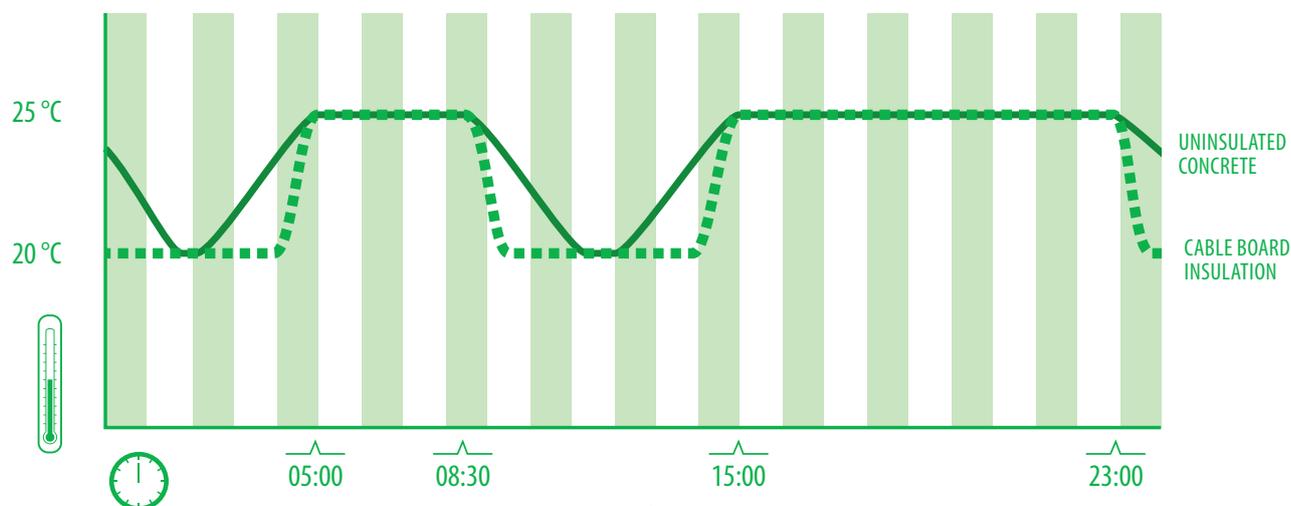
The heat-up time is largely determined by the heating cable's substrate. Materials with a good insulation capacity give a rapid heat-up time. An insulation board in an underfloor heating system makes a major difference compared with underfloor heating directly on a sluggish, poorly insulated concrete slab.

We therefore recommend that insulation boards are always used as a part of our underfloor heating systems. Our range of insulation means that you can always find a solution that is appropriate, regardless of type of room and substrate. *Read about our different systems on pages 14-15.*



Measurement of the heat-up speed for our insulation board compared with underfloor heating directly on top of a concrete slab. There was a difference of 5°C after the first hour.

#### ENERGY SAVER PROGRAM IN SYSTEMS OF VARIOUS SPEEDS



Study of Energy Saver program with our insulation board compared with underfloor heating directly on top of a concrete slab.

The Energy Saver programs work optimally together with a well-insulated and fast system. With underfloor heating directly on top of a concrete slab, the temperature has to start rising long before the next event. The concrete has a low insulation capacity and produces a sluggish system. You consequently don't save as much by running an energy saving

program. You obtain the greatest saving when insulation and the Energy Saver program are used together. *In other words, the EB-Therm 205/355 Energy Saver thermostats and the Cable Board insulation are a perfect combination. More information about the products is to be found on page 15 onwards.*

***“A combination that makes a difference!  
Programs and insulation work optimally together.”***

#### MORE ENERGY-SAVING TIPS

- Insulate floors
- Seal windows and doors
- Lower the temperature
- Set a lower night temperature
- Turn down the heating when no one is at home
- Turn off lights in empty rooms
- Use low-energy bulbs
- Switch off devices in stand-by mode
- Use an electric kettle when cooking
- Run full dishwashers and washing machines at low temperature
- Defrost freezers at least a couple of times a year

#### The butterfly effect

When we speak about the butterfly effect we mean that very small events and initiatives can ultimately have large effects. “A flap of a butterfly’s wing in Brazil can set off a tornado in Texas.” If we all take responsibility and do what we can to reduce our consumption of the Earth’s resources, then we can come a long way. Look for the Energy Saver symbol and you too can make a contribution to the butterfly effect.

ENERGY SAVER

# THIS IS WHAT WE DID!

*Ebeco's heating solutions are installed in hundreds of thousands of homes. We have visited one of them and invited the family that lives there to talk about their system. Come with us to the home of Ebba, Erik, Axel, Johanna and Thomas!*

When the Rahm family decided to start renovating their cellar, underfloor heating was a given. However, the difficulty was that the house, like so many other older houses, only has a very thin and completely uninsulated concrete slab on the ground. This places great demands on the underfloor heating system if you want to have an energy-smart system without losing heat straight down into the ground. The obvious choice in both laundry room and bathroom was the insulation board, [Cable Board](#), together with [Ebeco Cable Kit 300](#). Both of the products are Energy Saver labelled.

Cable Board ensures that the heat is reflected upwards, ensuring rapid heat-up. As an additional energy-saving measure, the family uses the thermostats' Energy Saver program. The heat is lowered automatically at night and when the family is not at home. When the heat is subsequently raised it becomes, as Johanna says, "warm quite quickly". That's why the EB-Therm 355 thermostat is particularly good, because the time and temperature can be set precisely according to individual requirements.

The Rahm family has a total of four Ebeco systems in the house, the first of which was installed 12 years ago. They chose to supplement the existing system (ground source heating with radiators and waterborne underfloor heating) in order to obtain fast and flexible heat for specifically chosen areas. The benefit, as they describe it, is that "you decide yourself when to turn up the heat". They feel that the [speed](#) and the [flexibility](#) are important.

As to whether they are happy with their underfloor heating systems, both Thomas and Johanna say that they are "extremely pleased". The level of comfort has increased considerably. They also tell us that a floor sensor broke a few years ago. However, as the sensor was located in a pipe, all they had to do was pull it up and replace it. As simple as that!

Renovation of the house is continuing and there might be even more underfloor heating in the as yet unrenovated part of the cellar?

*The building dates from 1938 and has a total of four Ebeco system installed. The cellar, which was previously undecorated with no fittings, now has a modern, functional laundry room and bathroom, and the renovation is continuing.*





*“The heat is lowered automatically at night and when nobody is at home.”*

*Erik & Ebba in their newly renovated laundry room. The family is now happy to spend time in the laundry room. Warm floors and a TV make ironing and folding washing more enjoyable.*



## Let the experts deal with installations

*When it comes to electrical installations there are regulations that have to be met. Here we explain how it works and how to find the right assistance.*

### **What can I do myself?**

The National Electrical Safety Board's regulations currently apply in Sweden. They say that all systems for electric underfloor heating must be installed and connected to the electric mains by qualified electricians. Find out from your electrician if you can prepare the installation in some way. For example, by making the substrate dry and flat, or by laying the insulation boards.

### **We only work with professionals**

You can purchase our products both in shops and directly from your electrical contractor. We have a nationwide network of retailers. Visit our website [ebeco.com](http://ebeco.com) to find the one that is best for you. Regardless of whether you visit a shop or hire an electrician, you can be confident of receiving first-rate assistance and assured advice when buying underfloor heating. We work solely with reliable, knowledgeable retailers. They provide useful tips and know which product is most appropriate for your specific circumstances.



# CHOOSE THE RIGHT UNDER-FLOOR HEATING

CHOOSE SUBSTRATE	Ceramic tiles & natural stone floors - dry rooms		Ceramic tiles & natural stone floors - wet rooms	
	Chipboard/plasterboard	CABLE KIT & CABLE BOARD	THERMOFLEX KIT & THERMO BOARD	CABLE KIT & THERMO BOARD
Concrete floors	CABLE KIT & CABLE BOARD	THERMOFLEX KIT & THERMO BOARD	CABLE KIT & CABLE BOARD	THERMOFLEX KIT & THERMO BOARD
Open wooden joist frames	CABLE KIT		CABLE KIT	
Conservatory	CABLE KIT	MULTIFLEX	---	
Embedment in concrete slab	MULTIFLEX		MULTIFLEX	

## CABLE KIT + CABLE BOARD

**PRIMARILY INTENDED FOR:** Tiled and natural stone floors as well as filling in conservatories.

**CAN ALSO BE USED FOR:** Wooden floors and plastic floor coverings (Applies to Cable Kit without insulation board, requires an extra thick layer of filler, max. 75 W/m<sup>2</sup>)

**GOOD TO KNOW:** Also ideal for small areas with a lot of obstacles.



## THERMOFLEX KIT + THERMO BOARD

**THERMO BOARD CAN ALSO BE USED FOR CABLE KIT.**

**INTENDED FOR:** Ceramic tiles and natural stone floors

**GOOD TO KNOW:** Ideal for large open areas without obstacles.



We have four underfloor heating systems that are suitable for different conditions and requirements. Three of them consist of an underfloor heating kit and an insulation board. The kit contains heating cable/foil, a thermostat and accessories. Your tradesman knows which products are needed for priming, filling and fixing. We always recommend insulation as a part of our underfloor heating systems, as it makes the system fast-acting and thereby energy-efficient. The fact is that our thermostats' energy saving programs deliver the greatest benefits in fast systems. You'll notice it in your electricity bill. The table below shows the systems we primarily recommend based on your circumstances.

## CHOOSE FLOOR COVERING

Wooden & laminate floors - dry rooms	Plastic floor coverings - dry rooms	Plastic floor coverings - wet rooms
FOIL KIT & EBISOL	FOIL KIT & EBISOL	CABLE KIT*
FOIL KIT & EBISOL	FOIL KIT & EBISOL	CABLE KIT*
CABLE KIT*	CABLE KIT*	CABLE KIT*
---	---	---
MULTIFLEX*	MULTIFLEX*	MULTIFLEX*

\* Max. 75 W/m<sup>2</sup>. As the floor covering is sensitive to high temperatures, the output must not be higher. The output is determined by how closely the cable is laid.

### FOIL KIT + EBISOL

**INTENDED FOR:**  
Wooden floor, laminate  
and plastic floor covering.

**GOOD TO KNOW:**  
Foil Kit must always  
be installed on Ebisol  
insulation board. Not  
approved for wet rooms.



### MULTIFLEX 20

**INTENDED FOR:**  
Embedment in concrete indoors  
or for conservatories.

**CAN ALSO BE USED FOR:**  
The cable can also be laid in  
conservatories.



# HERE ARE OUR THERMOSTATS

The EB-Therm range of thermostats has been developed for simple, stylish and energy-efficient control of underfloor heating. The thermostats are microprocessor-controlled and use *fuzzy technology*. This means that the thermostat is gathering data from start up and calculates when it should turn on and off. This technology reduces temperature fluctuations, providing a more constant temperature. What it means for you is a more comfortable climate and lower energy consumption.



## EB-THERM 55

This is the most basic of the three thermostats. Setting is simple with a control knob. It regulates the underfloor heating by means of a floor sensor.



## EB-THERM 355

This thermostat has a total of four selectable Energy Saver programs, and one of them allows you to set event\* entirely according to your requirements for every day of the week. Large, clear display. Just as with 205, the display can show both set and actual temperature.

In addition you can view statistics on operating time, which gives you control over energy consumption. 355 has room and floor sensors. With 355 you can also change the appearance of the thermostat using Front Cover, which fits two of the most popular frame systems on the market (Elko Plus and Exxact).



Match with the tiles, the wallpaper and your switch!



## EB-THERM 205

The thermostat has two selectable preset Energy Saver programs, for home and office environments. It has a clear display where you can set the light intensity. The display can show both the set temperature and the actual temperature. The thermostat can control underfloor heating with a room or a floor sensor, or a combination of both. This means that you can even have underfloor heating underneath fragile materials that must not exceed a certain temperature. EB-Therm 205 has double internal sensors that ensure precise measurement.

The thermostat can control underfloor heating with a room or a floor sensor, or a combination of both. This means that you can even have underfloor heating underneath fragile materials that must not exceed a certain temperature. EB-Therm 205 has double internal sensors that ensure precise measurement.



### The different Energy Saver programs

**Personal.** The option of setting four events\* in a 24 hour period for the whole week.



**Home.** Lower the heat by 5°C Mon-Fri 8.30am-3pm and Mon-Sun 11pm-5am.

**Office.** Lower the heat by 5°C at all times apart from Mon-Fri 6am-6pm.



**Holiday.** When you are going to be away for a longer period, set the temperature between 5 and 15°C.

**Remember: Turn on the heat only when you need it!**

### 355

### 205

### 55

	355	205	55
Sensor	Room & floor	Room & floor	Floor
Energy Saver	4 programs	2 programs	No
Programmable	Yes	No	No
Colour options	Yes	No	No
Shows operating time	Yes	No	No
Included in	Cable Kit 300 Thermoflex Kit 300	Cable Kit 200 Thermoflex Kit 200 Foil Kit	Cable Kit 50

#### Article list

8581605	Thermostat EB-Therm 55	
8581608	Thermostat EB-Therm 205	
8581664	Thermostat EB-Therm 355	
8581611	Front Cover 355 Anthracite for Exxact frame system (frame not incl.)	
8581612	Front Cover 355 Metallic for Exxact frame system	- "-
8581613	Front Cover 355 Alu for Elko Plus frame system	- "-
8581614	Front Cover 355 Black for Elko Plus frame system	- "-

\*Event = what the temperature has to be at a certain time



*“A smart control system maintains an even temperature and directly determines energy consumption.”*

# CABLE KIT

Contains everything needed to install underfloor heating beneath tiled and natural stone floors. The heating cable is secured on the substrate with tape or adhesive, and filled in.

**TYPE OF ROOM:** Wet room/dry room/conservatory

**SUBSTRATE:** Concrete/plaster board/chipboard/in wooden joist frame

**PRIMARYLY INTENDED FOR:** Tiled and natural stone floor as well as filling in conservatory.

**CAN ALSO BE USED FOR:** Wooden floor/plastic floor covering (Applies to Cable Kit without Cable Board. Requires a layer of filler of min. 8/15 mm. Max. output 75 W/m<sup>2</sup>)

**POWER:** 75-160 W/m<sup>2</sup>

**BUILD-UP HEIGHT CABLE:** 4 mm

**BUILD-UP HEIGHT WITH INSULATION:** 22-23 mm

## CABLE KIT 300

The most energy-smart option in the range. It contains EB-Therm 355 with a total of 4 different energy saving programs, one of which is a personal program where you can enter your own individual times and temperatures. The Front Cover accessory gives you the option to change the colour of the thermostat. Cable Kit 300 is a stylish, energy-smart option!

Combine with Cable Board for maximum energy saving!



Contains EB-Therm 355



CONTENTS: Cable on a drum, practical drum holder, EB-Therm 355 thermostat, flexible conduit, fixing tape and glue sticks.



Which output is suitable for your home?  
- Read more on page 8.

### ARTICLE LIST

Cable Kit 300	Cable Kit 200	Cable Kit 50	Power	Length	Cable Board* Area at 110 W/m <sup>2</sup>	Area at 120 W/m <sup>2</sup>	Area at 100 W/m <sup>2</sup>	Area at 75 W/m <sup>2</sup>	Only concrete substrate	
									Area at 160 W/m <sup>2</sup>	Area at 140 W/m <sup>2</sup>
8960870	8960850	8960840	150 W	13.5 m	1.9 m <sup>2</sup>	1.3 m <sup>2</sup>	1.5 m <sup>2</sup>	2.0 m <sup>2</sup>	0.9 m <sup>2</sup>	1.1 m <sup>2</sup>
8960871	8960851	8960841	200 W	18.5 m	2.3 m <sup>2</sup>	1.7 m <sup>2</sup>	2.0 m <sup>2</sup>	2.7 m <sup>2</sup>	1.3 m <sup>2</sup>	1.5 m <sup>2</sup>
8960872	8960852	8960842	260 W	23 m	3.0 m <sup>2</sup>	2.1 m <sup>2</sup>	2.6 m <sup>2</sup>	3.4 m <sup>2</sup>	1.6 m <sup>2</sup>	1.8 m <sup>2</sup>
8960873	8960853	8960843	330 W	31 m	3.7 m <sup>2</sup>	2.7 m <sup>2</sup>	3.3 m <sup>2</sup>	4.4 m <sup>2</sup>	2.1 m <sup>2</sup>	2.3 m <sup>2</sup>
8960874	8960854	8960844	400 W	37 m	4.3 m <sup>2</sup>	3.3 m <sup>2</sup>	4.0 m <sup>2</sup>	5.3 m <sup>2</sup>	2.5 m <sup>2</sup>	2.8 m <sup>2</sup>
8960875	8960855	8960845	470 W	43 m	4.9 m <sup>2</sup>	3.9 m <sup>2</sup>	4.7 m <sup>2</sup>	6.3 m <sup>2</sup>	3.0 m <sup>2</sup>	3.4 m <sup>2</sup>
8960876	8960856	8960846	540 W	49 m	5.7 m <sup>2</sup>	4.5 m <sup>2</sup>	5.4 m <sup>2</sup>	7.2 m <sup>2</sup>	3.4 m <sup>2</sup>	3.9 m <sup>2</sup>
8960877	8960857	8960847	650 W	58 m	7.3 m <sup>2</sup>	5.4 m <sup>2</sup>	6.5 m <sup>2</sup>	8.7 m <sup>2</sup>	4.1 m <sup>2</sup>	4.7 m <sup>2</sup>
8960878	8960858	---	810 W	73 m	8.6 m <sup>2</sup>	6.7 m <sup>2</sup>	8.1 m <sup>2</sup>	10.7 m <sup>2</sup>	5.0 m <sup>2</sup>	5.8 m <sup>2</sup>
8960879	8960859	---	960 W	86 m	10.5 m <sup>2</sup>	8.0 m <sup>2</sup>	9.6 m <sup>2</sup>	12.8 m <sup>2</sup>	6.0 m <sup>2</sup>	6.9 m <sup>2</sup>
8960880	8960860	---	1,180 W	107 m	12.4 m <sup>2</sup>	9.8 m <sup>2</sup>	11.8 m <sup>2</sup>	15.7 m <sup>2</sup>	7.4 m <sup>2</sup>	8.4 m <sup>2</sup>
8960881	8960861	---	1,380 W	124 m	15.4 m <sup>2</sup>	11.5 m <sup>2</sup>	13.8 m <sup>2</sup>	18.3 m <sup>2</sup>	8.6 m <sup>2</sup>	9.8 m <sup>2</sup>
8960882	8960862	---	1,710 W	155 m	18.5 m <sup>2</sup>	14.2 m <sup>2</sup>	17.1 m <sup>2</sup>	22.7 m <sup>2</sup>	10.7 m <sup>2</sup>	12.2 m <sup>2</sup>
8960883	8960863	---	2,080 W	187 m	20.7 m <sup>2</sup>	17.3 m <sup>2</sup>	20.8 m <sup>2</sup>	27.7 m <sup>2</sup>	13.0 m <sup>2</sup>	14.9 m <sup>2</sup>
8960890	Kit without a thermostat		1,180 W	107 m	12.4 m <sup>2</sup>	9.8 m <sup>2</sup>	11.8 m <sup>2</sup>	15.7 m <sup>2</sup>	7.4 m <sup>2</sup>	8.4 m <sup>2</sup>

\* Only Cable Kit 300 and Cable Kit 200 can be installed with Cable Board.

Combine with Cable Board for maximum energy saving!

## CABLE KIT 200

Cable Kit 200 also provides excellent conditions for energy efficient heating. The EB-Therm 205 thermostat included in the package has two energy saving programs; one for the home environment and one for the office environment.



Contains EB-Therm 205



CONTENTS: Cable on a drum, practical drum holder, EB-Therm 205 thermostat, flexible conduit, fixing tape, glue sticks.

## CABLE BOARD



A unique insulation board specially designed for Cable Kit 300 & 200. Provides an energy-efficient underfloor heating system underneath tiled and natural stone floors. The cable is laid in the prepared grooves that are subsequently filled with tile adhesive. The combination forms a fast-acting, easy to install, low-height and energy-efficient underfloor heating system. Extruded polystyrene cellular plastic makes the board light, robust and unaffected by water. Furthermore, the holes in the board allow moisture to pass through. You don't need to worry about reverse moisture migration or other damage due to dampness. The board's special structure is highly effective in reflecting the heat upwards. No heat is wasted downwards or to the sides, and the underfloor heating system is extremely fast-acting. The floor temperature rises by 5-7 °C in one hour. Cable Board therefore also makes a difference to energy consumption in well-insulated homes. Thanks to its speed, it is particularly suitable to control the underfloor heating with the thermostats' Energy Saver program.

Article list

Area

8960180	Ebeco Cable Board insulation board	3.6 m <sup>2</sup>
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### TECHNICAL FACTS

Power output with Cable Kit	110 W/m <sup>2</sup>
Material	Extruded polystyrene
Thickness	20 mm
Size	1.2 x 0.6 m (0.72 m <sup>2</sup> )
Packing	5 boards/pack = 3.6 m <sup>2</sup>
Thermal conductivity	0.030 W/m° C (A 13164:2003)
For concrete substrates	In dry and wet rooms
For wooden subfloors	Only in dry rooms

## CABLE KIT 50

The most basic kit in the range - an underfloor heating package with the most essential functions. It contains the EB-Therm 55 thermostat with floor sensor. Note that Cable Kit 50 is not suitable for the Cable Board insulation board as it does not include fixing tape or the programming options that are so effective in utilising the insulation board's speed.



Contains EB-Therm 55



CONTENTS: Cable on a drum, EB-Therm 55 thermostat, flexible conduit, glue sticks.

# THERMOFLEX KIT

Kit in two versions, with self-adhesive heating cable mat for tiled and natural stone floors. Perfect for open and regular areas with few obstacles. Quick to roll out on the substrate and fill in.

**TYPE OF ROOM:** Wet rooms/dry rooms/conservatories

**SUBSTRATE:** Concrete/plaster board/chipboard/in wooden joist frame

**INTENDED FOR:** Tiled and natural stone floor as well as filling in conservatory.

**POWER:** 120 W/m<sup>2</sup>

**BUILD-UP HEIGHT CABLE:** 4 mm

**BUILD-UP HEIGHT WITH INSULATION:** 14 mm



Combine with Thermo Board for maximum energy saving!



CONTENTS: Heating cable mat, EB-Therm 355 or 205 thermostat and flexible conduit.

## ARTICLE LIST

Thermoflex Kit 300		Thermoflex Kit 200		Power	Size	Area
8960217	8960230			150 W	0.5 x 2.5 m	1.25 m <sup>2</sup>
8960218	8960232			200 W	0.5 x 3.4 m	1.7 m <sup>2</sup>
8960219	8960234			250 W	0.5 x 4.2 m	2.1 m <sup>2</sup>
8960220	8960236			340 W	0.5 x 5.4 m	2.7 m <sup>2</sup>
8960221	8960238			410 W	0.5 x 6.8 m	3.4 m <sup>2</sup>
8960222	8960240			480 W	0.5 x 7.8 m	3.9 m <sup>2</sup>
8960223	8960242			530 W	0.5 x 8.8 m	4.4 m <sup>2</sup>
8960224	8960244			640 W	0.5 x 10.8 m	5.4 m <sup>2</sup>
8960225	8960246			780 W	0.5 x 13.2 m	6.6 m <sup>2</sup>
8960226	8960248			940 W	0.5 x 15.8 m	7.9 m <sup>2</sup>
8960227	8960249			1,170 W	0.5 x 19.2 m	9.6 m <sup>2</sup>
8960228	8960250			1,380 W	0.5 x 23.0 m	11.5 m <sup>2</sup>
8960229	8960252			1,700 W	0.5 x 28.0 m	14.0 m <sup>2</sup>
8960596	Without thermostat.			1,380 W	0.5 x 23.0 m	11.5 m <sup>2</sup>



## THERMOFLEX KIT 300

Contains EB-Therm 355

## THERMOFLEX KIT 200

Contains EB-Therm 205



# THERMO BOARD

Thermo Board is an insulation board intended for use together with Thermoflex Kit or Cable Kit 300/200. The board is ideal for wet rooms. The combination forms an energy-efficient system that can be installed on all substrates. Thermo Board has high insulating capabilities that can be compared with approx. 500 mm of concrete. It is stable in terms of shape, and is not affected by moisture or dampness.

### TECHNICAL FACTS

Material	Extruded polystyrene with fibreglass-reinforced surface
Thickness	10 mm
Size	1.2 x 0.6 m (0.72 m <sup>2</sup> )
Packing	5 boards/pack = 3.6 m <sup>2</sup>
Thermal conductivity	0.035 W/m° C (EN 13164:2003)

Article list	Area
8960160 Thermo Board insulation board	3.6 m <sup>2</sup>



# FOIL KIT®

EBECO ♥  
ALL FLOORS

Consists of a thin underfloor heating foil with accessories. The heating foil is durable, reliable and thin - only 0.3 mm. It contains no halogens or PVC. The foil is wired with cables and terminals that are included in the pack. Ebeco Foil is an approved design according to the guidelines for underfloor heating with wooden floors stipulated by the *for the flooring industry's* trade association.

**Always installed with Ebisol  
for maximum energy-saving!**

**TYPE OF ROOM:** Only dry rooms

**SUBSTRATE:** Concrete/plasterboard/chipboard/in wooden joist frames

**INTENDED FOR:** Wooden/laminate /plastic floor covering

**POWER:** 65 W/m<sup>2</sup>

**BUILD-UP HEIGHT WITH INSULATION:** 3.5-6.5 mm  
(depending on insulation thickness)



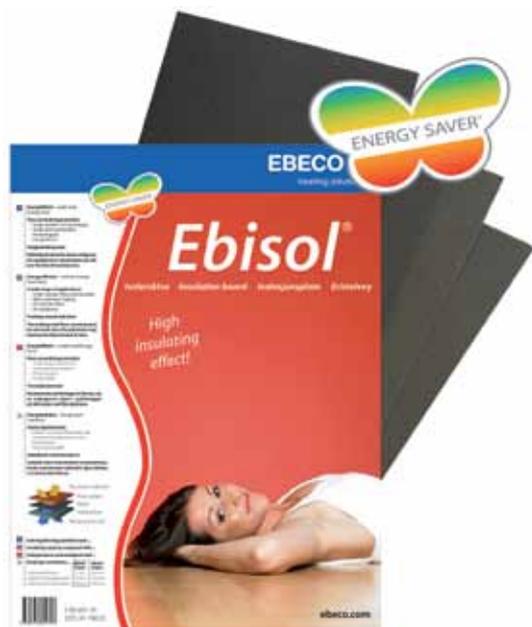
**CONTENTS:** Underfloor heating foil, thermostat EB-Therm 205, tape, terminals, single-core double-insulated cables, flexible conduit.



**Contains EB-Therm 205**

## ARTICLE LIST

Foil Kit	Total output	Length	Area
8960640	351 W	13.5 m	6 m <sup>2</sup>
8960642	468 W	18.0 m	8 m <sup>2</sup>
8960644	585 W	22.5 m	10 m <sup>2</sup>
8960646	702 W	27.0 m	12 m <sup>2</sup>
8960648	819 W	31.5 m	14 m <sup>2</sup>
8960650	Without thermostat 585 W	22.5 m	10 m <sup>2</sup>
<b>You also need:</b>			
8960690	Crimping tool (not included in the kit)		



## EBISOL

Just 6 mm of the insulation board provides the same level of insulation as 24 mm of pine, a 100 mm brick wall or 360 mm of normal concrete! The special cell structure means that the insulation prevents the heat from dissipating and instead reflects it back towards the floor surface so that it benefits you. The energy is utilised more efficiently and energy consumption is reduced. That's why the Ebeco Foil Kit underfloor heating system is always installed together with Ebisol.

Ebisol has a number of major benefits that will benefit you even if you are not going to install underfloor heating. It provides effective protection against moisture and cold and is water-repellent and does not rot or get mouldy. Moreover, it dampens impact sounds and is shock-absorbing, making wooden floors quieter and nicer to walk on. We always recommend 6 mm insulation board as it provides better insulation and is simpler to install.

### TECHNICAL FACTS

Material	Extruded polystyrene
Thickness	3 or 6 mm
Size	1.2 x 0.5 m (0.6 m <sup>2</sup> )
Packing	10 boards/pack
Thermal conductivity	0.028 W/m° C (EN 13164:2003)
Footstep sound reduction	20 dB (EN ISO 140-8:1999)

Article list	Area
8960170 Ebisol insulation board 3 mm	6 m <sup>2</sup>
8960172 Ebisol insulation board 6 mm	6 m <sup>2</sup>

# MULTIFLEX 20

Extend the summer with underfloor heating in the conservatory!

Multiflex is a robust heating cable with 20W/m output. It is therefore ideal for embedment where the cable is cast in 50 mm of concrete.

It is also a good choice for conservatories in order to raise the level of comfort and extend the season. Used in conservatories, it can also be laid in a layer of screed, as well as being cast in concrete.

**TYPE OF ROOM:** Wet rooms/dry rooms/conservatories

**SUBSTRATE:** Concrete

**INTENDED FOR:** Embedment in concrete

**POWER:** 80-160 W/m<sup>2</sup>

**RECOMMENDED OUTPUT IN CONSERVATORIES:**

130-160 W/m<sup>2</sup>. The cable can also be laid in a layer of screed in conservatories.

**BUILD-UP HEIGHT WITH INSULATION:**

No extra height when embedding, 10 mm when using screed filling



CONTENTS: Cable on a drum, practical drum holder.

## ARTICLE LIST

Multiflex 20	Power	Length	Area at 80 W/m <sup>2</sup>	Area at 100 W/m <sup>2</sup>	Area at 130 W/m <sup>2</sup>	Area at 160 W/m <sup>2</sup>
8960700	200 W	10 m	2.5 m <sup>2</sup>	2.0 m <sup>2</sup>	1.5 m <sup>2</sup>	1.3 m <sup>2</sup>
8960702	270 W	14 m	3.4 m <sup>2</sup>	2.7 m <sup>2</sup>	2.1 m <sup>2</sup>	1.7 m <sup>2</sup>
8960704	350 W	17 m	4.4 m <sup>2</sup>	3.5 m <sup>2</sup>	2.7 m <sup>2</sup>	2.2 m <sup>2</sup>
8960706	440 W	23 m	5.5 m <sup>2</sup>	4.4 m <sup>2</sup>	3.4 m <sup>2</sup>	2.8 m <sup>2</sup>
8960708	550 W	27 m	6.9 m <sup>2</sup>	5.5 m <sup>2</sup>	4.2 m <sup>2</sup>	3.4 m <sup>2</sup>
8960710	720 W	36 m	9.0 m <sup>2</sup>	7.2 m <sup>2</sup>	5.5 m <sup>2</sup>	4.5 m <sup>2</sup>
8960712	870 W	44 m	10.9 m <sup>2</sup>	8.7 m <sup>2</sup>	6.7 m <sup>2</sup>	5.4 m <sup>2</sup>
8960714	1,090 W	53 m	13.6 m <sup>2</sup>	10.9 m <sup>2</sup>	8.4 m <sup>2</sup>	6.8 m <sup>2</sup>
8960716	1,290 W	64 m	16.1 m <sup>2</sup>	12.9 m <sup>2</sup>	9.9 m <sup>2</sup>	8.1 m <sup>2</sup>
8960718	1,560 W	79 m	19.5 m <sup>2</sup>	15.6 m <sup>2</sup>	12.0 m <sup>2</sup>	9.8 m <sup>2</sup>
8960720	1,840 W	93 m	23.0 m <sup>2</sup>	18.4 m <sup>2</sup>	14.2 m <sup>2</sup>	11.5 m <sup>2</sup>
8960722	2,350 W	115 m	29.4 m <sup>2</sup>	23.5 m <sup>2</sup>	18.1 m <sup>2</sup>	14.7 m <sup>2</sup>

It is important to us that you feel confident with Ebeco underfloor heating. We therefore offer a 10 year guarantee on [all our underfloor heating packages](#). The same guarantee covers everything - including the thermostat. The guarantee also covers peripheral costs if you really have bad luck. Our condition is that the product must be installed correctly by a qualified electrician and that the guarantee certificate is completed and signed. If you have any problems - contact us and we will assist you!



# DISCOVER MORE HEATING SOLUTIONS

*More than underfloor heating! We use the "Heating Solutions" slogan to express the breadth of our product range and expertise. Put simply, Heating Solutions means that we can solve many types of unexpected cold problems. See if you recognise yourself in any of the problems. We might just have the perfect heating solution for you!*

## **FOREVER CLEARING AWAY SNOW?**

If you are tired of shovelling snow off the drive, then we have the solution for you. Install *EBECO SNOWMAT* with *QUICK BOARD* insulation board and this chore will be just a memory. Wake up with a clear driveway, stairs, entrance or any other route that you want to keep nice and clear from snow and ice.

## **FROZEN PIPES?**

Do you have a problem with the water freezing in your weekend cottage or garage? With *FROSTVAKT 10* you protect pipes and taps during the winter. A simple and smart heating solution that gives you a more secure winter with fewer problems.

## **CHILLY HOLIDAY?**

It can be cold in a caravan on cool late summer evenings. We have the solution! Underfloor heating is actually also available for caravans. Forget the slippers and extend the summer when you install *EBECO'S UNDERFLOOR HEATING FOR CARAVANS*.

## **DANGEROUS ICICLES?**

With *FROSTVAKT 25* and *T-18* you avoid problems with icicles, ice breakups, and frozen roofs and drainpipes. Heating solutions for ice-free roofs that provide security for both people and properties.

## **STEAMED-UP MIRROR?**

Would you like to avoid your mirror being steamed-up after showering? A simple solution is to install *EBECO CLEAR MIRROR*. A heating foil that is secured behind the mirror and hey presto, the problem is solved!

Read more at [ebeco.com](http://ebeco.com)

# YOU CAN TRUST EBECO

*At Ebeco we have been working with heating solutions since Ebbe Larsson founded the company in the late seventies. As time has gone by we have presented a succession of innovations that have come to shape the heating cable market. Today we are a family business with the market's most comprehensive range of underfloor heating. We also have products within a number of other areas, where heating is the unifying thread. We have actually realised that there are a great many benefits to having the right heat in the right place. And it is precisely this additional heating gain that drives us. A gain that transforms the heat into something else. You might say that we believe in heat. In the goodness in heat.*



We know that energy consumption is important for you. We therefore develop systems that make it easy for you to economise on energy. We label our most energy-saving products with the Energy Saver symbol. They give you an energy-efficient system that has less of an impact on your wallet and on the Earth's resources.



It is important to us that you feel safe with Ebeco underfloor heating. We therefore offer a 10 year guarantee on all our underfloor heating packages. The same guarantee covers everything - including the thermostat. The guarantee also covers peripheral costs. If you really have bad luck all you have to do is to contact us and we will help you!



Choosing one of Ebeco's Expert installers means that you can be confident that your installation will be carried out satisfactorily and according to the National Electrical Safety Board's guidelines. We work solely with reliable, knowledgeable retailers. Search for your installer on [ebeco.com](http://ebeco.com)

## Get in touch!

You are always welcome to contact us if you have any questions or queries. Please visit [ebeco.com](http://ebeco.com) where we have collected all information about our products and lots of useful information about underfloor heating and other heating solutions. We are also on Facebook, where you can click the "like" button to receive all the latest news [facebook.com/ebecoab](https://facebook.com/ebecoab).

You can also send an e-mail to [info@ebeco.se](mailto:info@ebeco.se) or give us a call on +46 (0) 317 07 75 50. We are located at Lärjeågatan 11, 415 25 Gothenburg. Our retail dealers can be found at [ebeco.se/privat/aterforsaljare](http://ebeco.se/privat/aterforsaljare).





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