



**MoldedHeating**

## **Smart floor heating for parquet, laminated and wooden floors**



IntelliOhm™ Floor Heating is a Swedish made mat for electric heating under wooden flooring. The thickness of the heating mat is only 5 mm with the stepping sound insulation included. It is very easy to install the floor heating system. Under-floor heating gives a comfortable and even heat of the entire floor surface. The self regulating properties of the mat will generate heat where it is needed most. This and the fact that the heat is generated as close to the surface as possible result in considerably lower energy costs.



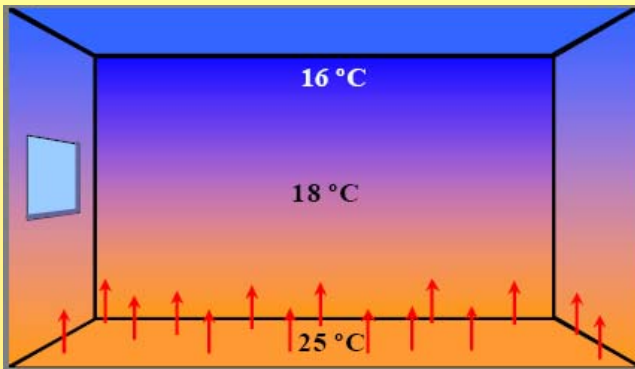
## The Unique Under Floor Heating System

### Advantages:

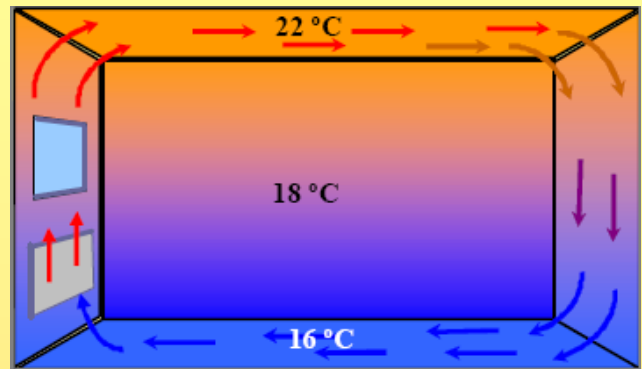
- Comfortable room temperature and warm feet.
- Lowest added height, only 5 mm inclusive stepping sound damping.
- Just roll it out and connect to 230 V.
- The heating mat is provided with cellular foam for achieving thermal isolation towards the under-floor and with stepping sound damping.
- The heating mat is placed directly under and in contact with the top floor minimising heat losses downwards.
- The self regulating properties give an effective protection against overheating.
- The self regulating properties and the closeness to the top floor and the extra cellular foam insulation result in lower energy cost from 15 - 20% in comparison to wall mounted radiators.
- The floor heating system gives an even and comfortable heat over the entire floor surface.
- IntelliOhm Floor Heating is a unique and patented heating system for use under parquet, laminate and wooden floor. The self regulating properties have the effect that the generated heat diminish with increased temperature and increases with lowered temperature. The mat is delivered as a roll. Included in the containment is what one needs in form of insulating tape, mastic tape, wire looms and crimp connectors.
- The mat consists of 5 layers. The mid layer is an electrically conductive plastic. Outside there is a double insulating layer on each side. When a voltage of 230 V is connected to the mat, heat is generated in the electrically conductive layer.
- The installation must be carried out of a certified electrician.

# Optimum comfort

Room with IntelliOhm™ Floor Heating



Room with radiators



With under-floor heating you can lower the room temperature with 2-3 °C and still having a comfortable indoor climate. The wellbeing is at it's best when the temperature is 24-25 °C under your feet and about 18 °C in chest height. The floor has now the highest temperature in the room. You will experience an almost ideal wellbeing. With the lesser air circulation the amount of dust and particles will also diminish.

With wall mounted radiators the heat accumulates under the ceiling. Hot air moves upwards. The air circulation is far from ideal and the heat is transferred to the walls and ceiling. The floor becomes the cold surface in the room. The increased air circulation will carry more dust and particles around.

## Energy smart

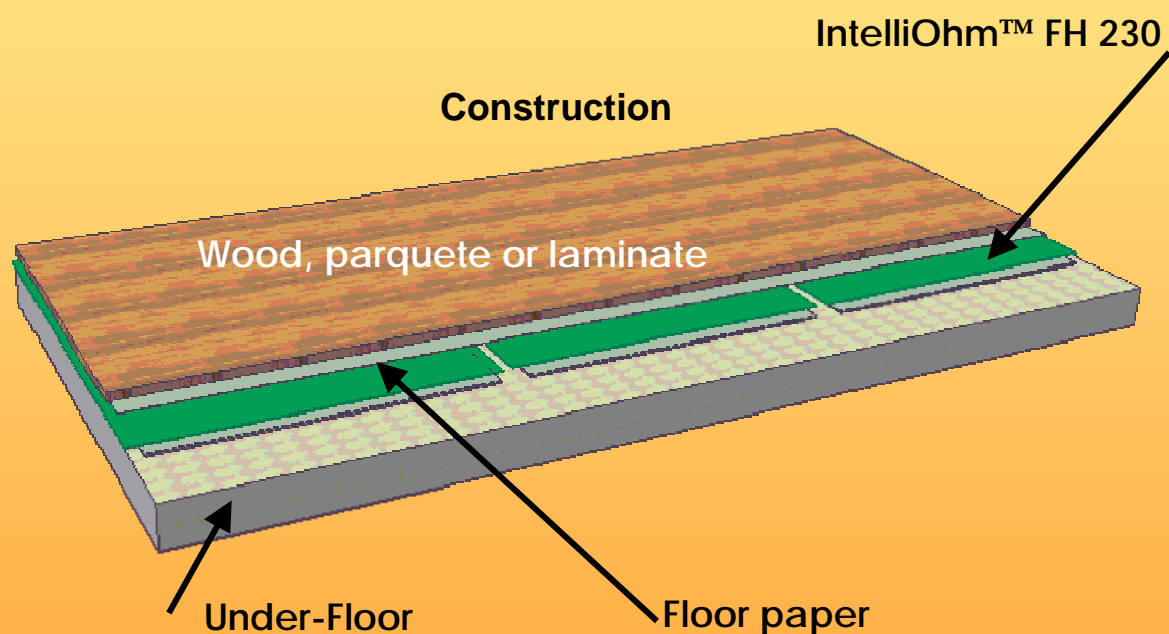
By substantially lowering the room temperature without losing comfort you will achieve lowered energy consumption. A prerequisite is that the under floor is well insulated downwards. The self regulation of the mat has the effect that heat is delivered where it is needed most. The heating mat is also provided with underneath foam insulation. Due to the fact that the heating mat is in direct contact with the top floor, the heat flow is directed upwards and not in the opposite direction. This will add to the lowering of the energy consumption. The system will also have a very low thermal inertia - it will take a short while to heat the floor. This will also make it worthwhile to use the full advantages of programmable thermostats to be able to implement lowered night temperatures and even lowered daytime temperatures. A general rule of thumb is that you will be able to lower the cost of energy at least with 15 - 20 % in comparison with radiators.

## Easy to install

The floor heating system is easy to install and connect to the electrical net. You don't need to install extra insulation or stepping sound damping since it is already provided for. All accessories are included in the kit except for the ratchet crimp tool and stripping pliers.

## Technical data of IntelliOhm™ Floor Heating FH 230

Voltage:	230 V
Current:	0.12 A/m
Power:	Ca.70 W/m <sup>2</sup> + 10% ; -5%
Electromagnetic fields:	Negligible.
Electrodes:	Two (2) 0,5 mm <sup>2</sup> tinned Cu-wires
Max individual length:	10 m
Height	≈ 5 mm.
Width:	390 mm
Design:	Double polyolefin insulation on each side of 0,4 mm. Mid layer of self regulating electrically conductive plastic of 1, 2 mm. Insulating and stepping sound cellular foam with a thickness of 3 mm.
IEC Norm:	The product comply to safety standards EN 60335-1: 2002+A11+A1+A12+A2+A13 and EN 60335-2-96: 2002+A1+A2 and EN 62233: 2008 and low voltage directive 2006/95/EC.
CE-mark:	IntelliOhm Floor Heating FH 230 has a CE-mark and comply with the health, environment and safety standards imposed by EU.



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