

IMPORTANT INFORMATION REGARDING YOUR HEATING SYSTEM

The system you have purchased is approved to the very latest regulations including EN60335-2-96:2002 and EN60335-1:2002 part A13:2008. As a result of some minor technical improvements to our product and to satisfy the updated legislation the following information should be read in conjunction with your heating mat instructions before you install your system:

Before installing Floor Heating begins please observe and follow the instructions:

- The Floor Heating can be used in or on tile adhesive, cement, levelling compound and on wooden constructions.
- The Underfloor Heating System must not be installed in walls or ceilings.
- A distance of min. 30mm to conductive parts must be obtained. Before installing the Underfloor Heating System information of conductive parts i.e. water pipes must be obtained.
- The Underfloor Heating System must be separated from other heat sources such as luminaries, chimneys or hot water pipes.
- The ambient temperature must be above 5C° when the Floor Heating System is installed.
- If possible ensure good insulation beneath the Underfloor Heating System to avoid unnecessary energy consumption.
- The Underfloor Heating System must be installed on regular surfaces only.
- The electrical installation must be done by a Qualified Electrician.
- The Underfloor Heating System shall be used together with a max. 30mA RCD device.
- If more than one Floor Heating mat is connected to the thermostat the connection must be made parallel.
- The location of the Floor Heating System must be given on a label fixed adjacent to the distributor board. The label must hold inform that there are conductive parts in the building.
- Thermal resistance between heating cables and room: Max. ca. 0,125 m²K/W.
- Typical insulating values:

Thin floors with i.e. tiles, vinyl	0,035 m ² K/W
Medium thickness floors with i.e. linolium, vinyl	0,040 m ² K/W
Floors i.e wooden, carpets, parket	0,125 m ² K/W
Thick floors i.e. wood-fiber, thick carpets	0,175 m ² K/W
- Underfloor Heating Systems on top of wooden floors must be with floor sensor.
- Covering material i.e. tile adhesive, cement, screed, levelling compound suitable for use together with Underfloor Heating Systems must be used.
- Covering material must have a density min. 1500kg/m³
- Covering material must have a heat transmission of min. 1W/m K.
- Covering material covering heating cable must have uniform properties.

- Covering material must have a thickness of min. 5mm. Also the heating cable must be fully encapsulated in the covering material.
- Air gaps between the heating cable and the Covering material is not allowed.
- Covering material must not be insulating or contain air bubbles or any other insulating objects.
- Installation of Floor Heating and terminations in timber constructions should be made so relative movements in the installation will not damage the heating cable.
- Precautions should be taken to avoid damage during installation, such as dropping sharp objects or stepping on the heating unit or careless pouring of Covering material.
- Precautions must be taken to avoid creasing the Floor Heating elements.
- Crossing Heating cables is not allowed.
- All Heating cable as well as both connections must be placed into the Covering material.
- ✓ Installation of Underfloor Heating Systems is to be in accordance with the national wiring rules. Other rules applicable for Underfloor Heating Systems must be fulfilled.
- ✓ List of controls:
OJ series: Microline MCT2-1991, MTC, OTN, MCC2, OCC2, OCC3-1991, OCC3-1999, OCD3-1999.
- Underfloor Heating Systems must be connected to a two-pole contactor. If the Thermostat is a one-pole contactor type a two-pole disconnection device must be incorporated in the fixed wiring.
- Other thermostats with similar specification may be used. They however are not incorporated in the System Approvals.
- Max. power under Parquet Floors are $150\text{W}/\text{m}^2$ - 230V a.c. ($160\text{W}/\text{m}^2$ - 240V a.c.)
- Max. allowable power pr. square meter is $200\text{W}/\text{m}^2$