

## Keeping an eye on running costs

Running costs are affected by how you use your heating system. They will be determined by room temperatures selected, outside weather conditions, how well your home is insulated, how much ventilation you have and so on.

### Please note

You should be more comfortable at lower air temperatures with DEVI Heating Systems than conventional heating systems. Remember for every 1°C higher the setting approximately 10-15% will be added to your running costs. In a new home the drying out of moisture within walls and floors may add significantly to your running costs in the first season.

## Useful advice

- 1 High room thermostat settings will increase running costs - so keep your settings as low as is comfortable. **Do not overheat your room!**
- 2 Your home should be insulated to the recommended local standards.
- 3 Ensure that windows and doors are effectively draught proofed.
- 4 Windows and doors left open unnecessarily are throwing heat and money away.
- 5 Glass areas allow considerable heat loss; therefore the drawing of curtains makes a significant difference.
- 6 Do not obstruct your floor/air thermostats.

**Remember, running costs are very much in your hands.**

## Electricity tariffs

Each electricity provider has different tariffs available. The hours when the electricity is cheaper vary depending on the area you are in and which tariff you are on. If you have any questions as to which tariff you are on, or think it would be advantageous to change to a different one, please contact your local electricity providers.

## Caution

To avoid damage to floors or floor coverings, your deviheat® floor heating systems should be switched on no earlier than 8 weeks after concrete is poured or 4-6 weeks after tiles are laid for in-screed heating. The waiting time for devimat heating in an adhesive bed should not be turned on for at least 2-3 weeks. The heating should be switched on for a few hours each day, working up to full loading in 8 to 10 days.

## devirail™ heated towel rails

### Benefits of heated towel rails

- Warm, fresh, dry towels all year round.
- If fewer washes are required you save water, detergent, time and energy.
- Ideal for cold wet winters and summer humidity.
- Safe and economical. Uses no more energy than a light globe.
- Long life, robust design. Dry element, no leaks.

### Running costs

Approximate costs when operating 24 hours per day, 7 days per week @ 10c per kWh:  
• 45 W unit costs about 75 c per week to run.  
• 65 W unit costs about \$1.00 per week to run.



## DEVI mirror heaters

- DEVI mirror heaters eliminate the age old problem of foggy, steamy mirrors. No more wiping, no more streaks.
- DEVI mirror heaters are quick and easy to install. They are usually connected via the power/light/fan switch.
- Running costs are low, comparable to a light globe.
- Available in three handy sizes, they can be adjusted to suit various shapes.
- DEVI Mirror Heaters are maintenance free, there they are manufactured using safe, rugged double insulated heating cable.



## Approvals and warranties

All DEVI Heating Systems products are available Australia wide and are approved to Australian Standards. DEVI Heating Systems provides a 10 year warranty on DEVI heating cables and mats; and a 2 year warranty on DEVI thermostats, mirror heaters and towel rails.



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# DEVI Heating Systems Customer Information & Operating Guide

DEVI Heating Systems only *feel* expensive...

Intelligent  
Heating Solutions

DEVI™  
Heating Systems

## Floor heating

### In-slab

A deviflex™ electric floor heating system has been installed in your home. It has been designed to give you all-over warmth, comfort and safety. Special insulated electric heating cables have been laid in your slab floor when your home was constructed. In-slab heating is usually connected to an off-peak or extended off-peak heating tariff. During the periods of the day or night when cheaper electricity is available, heat is stored in the floor. The heated concrete then dissipates background warmth evenly throughout the room.

### Cables in screed or devimat™ in an adhesive bed

Heating systems in a screed bed will function in much the same way as in-slab heating, but are more likely to be connected to the extended off-peak or a 24 hour tariff. Bathrooms or any zones with devimats™ in a thin adhesive bed are usually connected to a 24 hour tariff. A programmable thermostat like the devireg™ 540 or a separate time switch allows you to program the hours of operation to suit your lifestyle and save on energy costs and the environment.

### Suitable floor coverings

The usual operating surface temperature of an uncovered deviflex™ heated floor is between 25°C & 27°C, which is quite acceptable for most floor finishes. Typical floor coverings include carpet (with rubber or felt underlay), slate, ceramic, marble or terracotta tiles, vinyl, cork, parquet, wood block and strip flooring. Should you require further advice please contact your flooring supplier or DEVI Heating Systems.

## Ceiling heating

Your devifoil™ ceiling heating system is normally installed in rooms where heating is not required 24 hours a day, for example bedrooms, formal living rooms and dining rooms. Ceiling heating is not a storage heating system. It is therefore operated on a continuous, or 24 hour tariff, not an off-peak tariff.

### Suitable floor coverings

Most floor finishes are suitable for use with ceiling heating especially, carpet, cork, parquet, vinyl and wooden floors. Colder floor surfaces such as slate, ceramic, marble and terracotta tiles can be used, however they are better suited to floor heating. If you require further advice please contact DEVI Heating Systems.

## Controlling your heating systems

### Switching on and off

Switching your heating system on or off at the beginning or end of the heating season, or isolating the heating, is carried out at the sub-board or the electricity meter box. Look for a switch labelled 'Main Switch - Heating'. The switching methods used are usually tailor made for each installation and therefore it is difficult to give further detailed advice. If you have any doubts on how to switch your system on or off, please consult your installer, electrical contractor or the local electricity supply authority.

### devireg™ thermostats

Each heated zone will have an individual thermostat. If the devireg™ thermostats installed measure floor temperature only, they may be installed in a cupboard, pantry or vanity. If they measure both floor and air temperature, they must be wall mounted in a draught-free area on the wall. If you have a storage heating system i.e. if your heating is installed either in-slab or into a thick screed, the thermostats provide automatic control. Please do not turn the thermostats down at night or when you go out for short periods. See further advice below.

### Please note

The installer will have provided detailed operating instructions for the controller fitted. If, after reading the instructions, you still have difficulties, contact your installer or DEVI Heating Systems.

## Operating temperatures

### Adjusting a thermostat

- When making temperature adjustments to any thermostat, do so using small 1-2°C increments, then allow sufficient time (this can be a few days for in-slab heating) to lapse before assessing the need for further adjustments.
- devireg™ thermostats which measure floor and air or air temperature only are calibrated in °C.
- devireg™ 130's & 530's which only measure floor temperature have a graduated scale. Adjustment is similar for both.
- The thermostats will glow 'red' while using power, and 'green' while power is available but is not being used.

### Please note

The time taken for the room to warm up to the set temperature is not shortened by turning the thermostat to the highest setting.

### Recommended operating room air temperatures

- Living areas are usually operated between 18-20°C (approx. '5' on D130 & D530's).
- Bedrooms are usually operated between 16-18°C (approx. '4' on D130 & D530's).
- Bathrooms and hallways can be operated between 22-25°C (approx. '6' on D130 & D530's).
- Higher hall temperatures may allow for bleed-off heating to other rooms.

## Maintenance and repairs

One of the best features of DEVI's floor and ceiling radiant heating systems is the minimal maintenance required. Your heating system is designed to give many years of reliable service and should be maintenance-free, provided the cables or foils within the floors or ceiling are not damaged by penetrating the floor or ceiling surface. Floors or ceilings should never be penetrated without first checking with your heating installer.

Should you require any assistance or repairs to your heating system please contact your Installer or DEVI Heating Systems. Any remedial work to your heating system should only be carried out by a suitably trained and qualified person.

### Flooding

Flooding of any floor heated area should not affect the heating cables in any way, however the connections at the wall mounted connecting box will need to be checked by a qualified electrician along with all other electrical connections and equipment.

## Caution

With a floor heating system, the surface must be kept relatively free of restrictions that would inhibit heat output. The usual items of furniture such as tables, chairs, beds, couches are OK, but always avoid placing 'bean bags', large piles of clothing or anything offering high resistance to heat output over a large area of the heated floor.

**Failure to heed the above warning, can, in extreme cases, lead to cable damage and discolouring of some floor coverings due to the high temperature created.**

## When you are away

### Floor heating

**Short periods:** If you are away for only two or three days it is advisable to leave your floor heating switched on (you may wish to turn your thermostat to a slightly lower setting), and reset it to 'normal' when you return.

**Longer periods:** If your absence will be extended, it may be advisable to switch your floor heating off completely - but don't forget that when you return you may need more than 24 hours before your floor heating will be fully effective again. If the heating is operated on about 10°C or '2' on the D130 & D530 scale, it will help to avoid condensation and will decrease the time taken to warm back up.

### Ceiling heating

You should turn the heating off if you will be away for a few days or for extended periods. If you are only going to be away for a few hours you may prefer to turn the temperature down or leave it at the pre-set temperature. The heating will take approx. 1 hour to warm the room. The best way to automate the system is by using a time switch.

