

TileWarm™

DIY FLOOR HEATING



- SAFEST
- HEALTHIEST
- ENERGY EFFICIENT



TileWarm™

DIY FLOOR HEATING

- DIY Undertile floor heating kits that can be fitted in less than 2 hours.
- Colour coded guide provided for easy size selection.
- Thermostat guide



Included in each DIY kit:

1. TileWarm™ Heater
2. Adhesive fibreglass mesh
3. KlimaGuard® installation monitor.
4. KlimaCoat™ floor primer
5. KlimaFlex™ tile cement additive
6. Trunking for retrofit
7. 1m cord with moulded 16A plug
8. Installation instructions (not shown in picture)
9. User guide (not shown in picture)

Thermostat not included.

FREQUENTLY ASKED QUESTIONS

Where can I install COLDBUSTER® under tile heating?

You can install COLDBUSTER® under tile heating in any room of your choice, including bathrooms and kitchens!

How much heating do I need?

To determine how much heating you need, simply measure the size of the room you wish to heat and refer to the selection tables overleaf. To select your correct DIY kit(s), match the colour of the sticker on the side of the COLDBUSTER® box with those on the table.

How do I cater for furniture and fittings in a room?

Heating will generally not be extended under cabinets, wardrobes or heavy furniture and also not under beds.

You will find two tables overleaf, a guide for bathrooms and a guide for other rooms.

In bathrooms and kitchens, all tiles where you walk (usually 85% to 95% of the available floor area) are heated. In other rooms, 60% to 75% coverage of the available floor area will be sufficient. We have taken this into consideration when calculating the required sizes.

How long does the system take to heat up?

Response time is from 30 - 45 minutes (under 8mm tile), depending on the type of tiles. Typically the floor temperature increases by 4°C in the first hour after switching on.

How does the system affect my energy consumption?

Energy consumption depends on each individual's comfort needs. However, 1 kW of floor heating will be more efficient and cheaper to run than a 1 kW conventional heater, due to thermostat control and the even spread of the heating over the floor surface. Energy efficiency can be further optimised by installing insulation in your floor below the heating element.

Do I need a thermostat?

Yes, a thermostat will ensure optimum comfort while running of the system remains cost effective.

The desired temperature (called 'the setpoint') is dialed or programmed into the thermostat. The thermostat switches the heating on and off to keep the room temperature at this set point. Energy consumption is therefore reduced, because of the heater not demanding a continuous supply of electric current.

Which thermostat is suitable for me?

Your thermostat should be carefully selected, in order to maximise comfort levels and reduce energy consumption.

There are three types of COLDBUSTER® thermostats: manual, programmable and wireless programmable.

- **KlimaStat™** - Manual thermostats should only be installed in rooms that are infrequently used or where a constant temperature is required. The KlimaStat™ is not recommended for bathrooms or where floor temperature control is required. Fits on 3"x3" or surface mount wall box.



- **EzeeStat II™** - This programmable thermostat is the easy solution for efficiently controlling your COLDBUSTER® floor heating system. The EzeeStat II™ can be configured as a room or floor temperature controller or as a room controller with floor temperature limitation. Suitable for frequently used rooms. Fits on a 3"x3" or 4"x2" wall box.



- **RemoStat™** - The RemoStat™ programmable wireless thermostat consists of a portable, battery operated transmitter and a receiver. The RemoStat™ can accommodate extra receivers for multiple heaters. Each receiver can take a floor probe for floor temperature limitation. Suitable for large open plan areas. Ideally suitable for bathrooms. Receiver fits on a 3"x3" wall box. The transmitter can be placed anywhere in the room.



Receiver Transmitter

All three models can handle up to 3.0 kW of heating.

- **RemoXtra™** - RemoXtra™ is an additional receiver to be used in conjunction with the RemoStat™ transmitter. Fits on 3"x3" wall box.



Receiver

- **EzeeProbe™** - This floor probe is compatible with the EzeeStat II™ as well as the RemoStat™ and is used for floor temperature control or limitation.



How safe is the heating system in the bathroom should the floor get wet?

All COLDBUSTER® heating elements are waterproof and have a full earth screen for electric safety. When wired correctly, there is no risk of electric shock whatsoever.

Note that floor heating must be connected through an ELCB (Earth Leakage Circuit Breaker).

Should a qualified electrician be called in for final electrical connection?

This depends largely on your electrical knowledge and experience.

All COLDBUSTER® heating products have been designed with your safety in mind and are fully earth screened; however proper installation is paramount to ensure safety. Please follow the installation instructions carefully. If in doubt, employ a competent person to install or check your heating system.

What about electrical compliance?

The COLDBUSTER® floor heating system is classified as a fixed appliance, and as such does not form part of your house wiring system. The heating will be disconnected during testing for electrical compliance.

Can I run my COLDBUSTER® floor heating system off a normal plug point?

Yes, you can run the heating system off a normal plug point. However, if your heaters exceed 3.3 kW then you will need to get a qualified electrician to make provision for a separate supply from your Distribution Board.

Can COLDBUSTER® heaters be repaired?

Yes! Each COLDBUSTER® kit includes a KlimaGuard® installation monitor that will alert you of any damage to the element during installation and tiling. Should the KlimaGuard® sound an alarm, stop the installation and call the COLDBUSTER® helpline.

Tiles can be lifted and repairs made to the heating element. It is useful to keep a box of spare matching tiles.

Is there a support line I can call for assistance?

We have a professional advisory team on standby to consult with you. Should you need assistance call the COLDBUSTER® helpline. For further information, please visit our website.

COLDBUSTER® HELPLINE: 0860 554 629
info@coldbuster.co.za • www.coldbuster.co.za

ALSO AVAILABLE FOR UNDER WOOD FLOORING

INTERESTING FACTS

Why is floor heating better than air heating?

Floor heating provides a much more comfortable environment as the heat is radiated evenly from the floor, leaving no cold spots and avoiding draughts.

Heat losses are mainly caused by conduction and convection of hot air, which is minimized in the case of radiant heating.

Hot air rises, which means with air heating, the warm air collects against the ceiling. This is not the case with thermal radiation, since there is minimal convection and the air remains relatively cool, giving you that top to toe comfort.

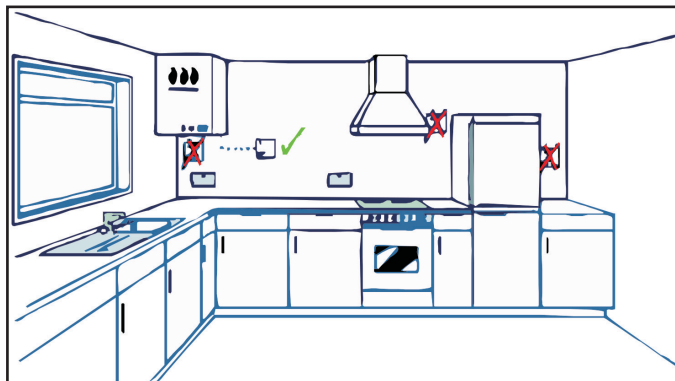


Apart from a comprehensive illustrated installation guide, all DIY products come with a user guide which gives many tips on how to run the system to reduce electricity consumption without affecting your comfort.

Choosing the best location for your thermostat.

The position of the thermostat should be chosen so that the sensor can measure the room temperature as accurately as possible. Direct solar radiation, draughts as well as other heating or cooling sources must be avoided as they can result in a false reading of the temperature sensor in the thermostat.

The mounting height should be approximately 1.4 metres.



Benefits of COLDBUSTER® floor heating:

- **Safe and child friendly**

No open flames or hot surfaces for children to touch, no risks of burning or electrical shock

- **Hygienic and healthy**

Floor heating helps to reduce dust mites, giving asthma sufferers a much better living environment. The lack of moving air is advantageous to people with allergies.

Floor heating does not dry the air the same way air heating does. The lack of air movement reduces dry skin, dry eyes and chapped lips.

- **Economical**

By using a floor heating system placed directly below the floor finish, the response time is much faster than conventional electric in slab heating.

COLDBUSTER® floor heating systems controlled by programmable thermostats only turn on the heaters at required times and comfort levels. With a quick "on-demand" response time, energy consumption is greatly reduced.

- **Increased comfort without compromise**

Floor heating leaves you with a nice warm floor so you can install practical floor coverings without them being cold (tiles). No aesthetic compromise.

TECHNICAL INFO

Self-regulating, multi stranded element with a full earth screen. Double insulated with fluoropolymer making it fully waterproof and corrosion resistant.

The COLDBUSTER® element is less than 1.5 mm thick, so it does not affect finished floor levels.

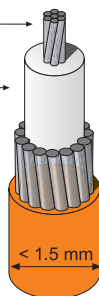
PATENTED* CO-AXIAL HEATING ELEMENT

Self-regulating multi stranded heating core

Fluoropolymer insulation tested at 5000 Volts: Safe and non-ageing

Full earth screen: No EMR 0.5mm²

Fluoropolymer insulation prevents oxidation: Non-ageing



* Patent No. 92/5937

COLDBUSTER® SELECTION TABLES

TileWarm™ Floor Heating

Guide for bathrooms

Open floor area (m ²)	Colour code to be used
1.8	
2.8	
3.6	
4.8	
5.9	
7.6	
9.4	

Fill the available floor area

Guide for other rooms

Room Size (m ²)	Colour code to be used
2	
3	
4	
5	
6-8	
9-12	
13-16	
17-19	+
20-21	+
22-24	+
25-27	+
28-31	+
32-36	+
37-41	+
42-43	+ +
44-45	+ +

Heater / Nett size (m²)

285W (1.8 m ²)	940W (5.9 m ²)
440W (2.8 m ²)	1210W (7.5 m ²)
570W (3.6 m ²)	1500W (9.5 m ²)
760W (4.8 m ²)	

PRODUCT WARRANTY

COLDBUSTER® products are guaranteed to be free of defects at the time of supply to the purchaser. A check for transport damage is executed as the heater is unpacked. The manufacturer's liability is limited to the replacement of faulty heaters before they are installed.

The manufacturer assumes no responsibility for the improper installation of its products nor for any consequential loss.

We recommend that COLDBUSTER® floor heating is installed by an experienced installer or cautious DIY person and that electrical connections be made by a qualified electrician.

For more information on the COLDBUSTER® floor heating system, visit our website or contact our call centre. Our knowledgeable staff are always happy to advise you.

COLDBUSTER® HELP LINE: 0860 554 629
info@coldbuster.co.za • www.coldbuster.co.za

Klimax
manufacturing limited
DIN EN ISO 9001:2008



Manufactured by
Klimax Mfg. Ltd.
222 Van Dyk Road Boksburg East 1459