



Heat Mat PipeGuard

# Heat Mat

## Ice & Snow Systems

Call 01444 247020  
to find out more or  
visit our website at  
[www.heatmat.co.uk](http://www.heatmat.co.uk)

### Heat Mat PipeGuard Features

- A simple to install product to protect against frozen condensate pipes
- Protects pipes in temperatures down to minus 25°C
- Integrated thermostat monitors the pipe temperature to provide fully automated protection
- Ready made maintenance free unit which can be simply zip-tied in place
- Operating costs are normally less than 50p per meter per year
- Also suitable for use to prevent frozen water pipes and taps
- Bespoke sizes and outputs can be supplied for special projects
- Internal condensate pipe heaters are also available where required
- Designed and manufactured in Denmark and supplied with a 10 Year Warranty

## Heat Mat Condensate Pipe Heater

### Easy prevention of frozen boiler condensate pipes



### Heat Mat PipeGuard

Designed to prevent frozen condensate pipes in the most extreme conditions, Heat Mat PipeGuard is a simple to fit solution which stops frozen, cracked and damaged pipes and ensures water keeps flowing down to -25°C.

Once installed Heat Mat PipeGuard automatically ensures heat is applied to the pipe when the temperature drops close to freezing, and switches off again to save energy once the pipe has reached a safe temperature.

- Ready made unit, simply connect to power supply
- Simple to install, can be quickly zip-tied in place
- Integrated thermostat to ensure energy efficiency
- Monitors pipe temperature, rather than air temperature, to minimise running costs
- Once covered with insulation the entire product is hidden from view, reducing potential damage or vandalism
- Maintenance free and supplied with a 10 year warranty
- Fully earthed for electrical safety
- Developed for use in Scandinavia where extreme winter conditions are a common occurrence

### Choosing the right cable for your pipe

For pipes up to 22mm in diameter the cable can be run along the base of the pipe or spiralled around it. For larger pipes the cable must be spiralled around to provide even heat coverage. The table below shows the pipe lengths that each Heat Mat PipeGuard unit can protect:

PipeGuard Length	Suitable for 10-22mm pipes of the following lengths	Suitable for 23-38mm pipes of the following lengths
1.4m	0.7m-1.4m	0.7m-1.2m
2.0m	1.5m-2.0m	1.3m-1.8m
4.0m	2.1m-4.0m	1.9m-3.6m
8.0m	4.1m-8.0m	3.7m-7.2m
10.5m	8.1m-10.5m	7.3m-9.4m
14.0m	10.6m-14.0m	9.5m-12.6m
18.5m	14.1m-18.5m	12.7m-16.7m
22.5m	18.6m-22.5m	16.8m-20.2m
38.0m	22.6m-38.0m	20.3m-34.2m
45.0m	38.1m-45.0m	34.3m-40.5m

For longer pipes multiple Heat Mat PipeGuard units can be used together. If installing onto non-metallic pipes we recommend covering the pipe with aluminium foil to aid the heat spread, and it is always advisable to insulate the pipe after installing the Heat Mat PipeGuard unit. The heating cable can be affixed with zip-ties, or strong tape.

### Suitable for:

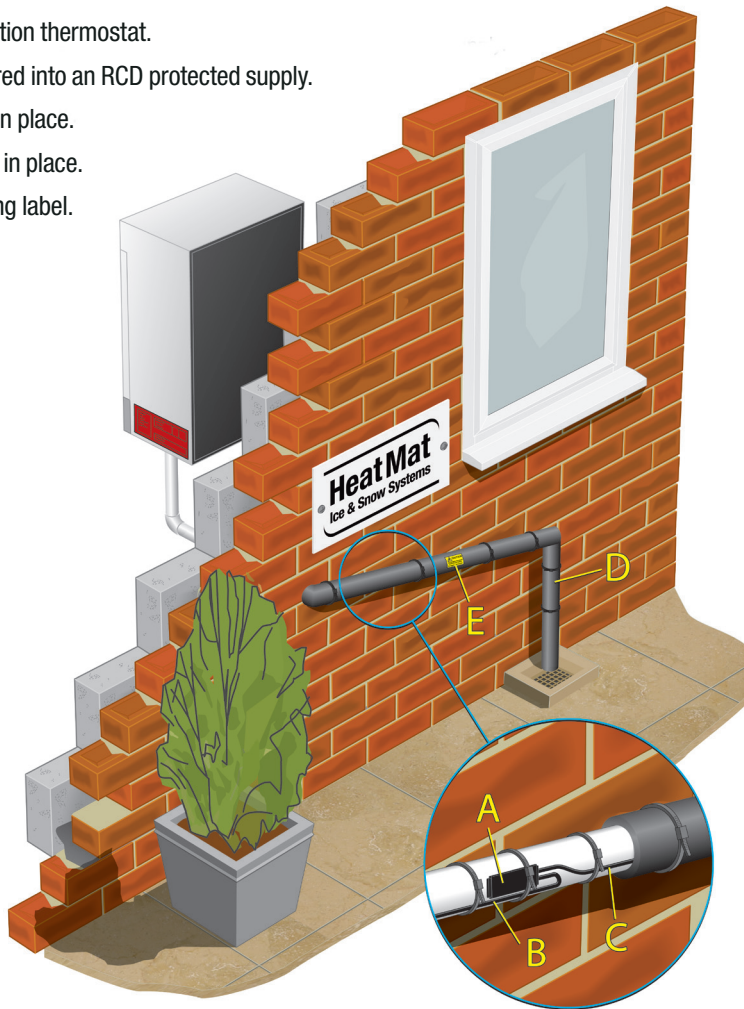
Boiler condensate pipes

External water pipes

Water pipes in lofts and outbuildings

Waste pipes

- A Integrated frost protection thermostat.
- B Supply cable, to be wired into an RCD protected supply.
- C Heating cable zip tied in place.
- D Pipe insulation zip tied in place.
- E Heating system warning label.



### HEAT MAT PIPEGUARD TECHNICAL SPECIFICATION

Application	Frost protection of metallic and non-metallic water pipes
Heating element	Dual conductor constant Wattage heating wire
Voltage	230V +/-10%
Output per meter	14 Watts
Output range	19 - 567 Watts
Amp rating	3amp
Sensor	Integrated thermal sensor
Start up temperature	+3°C
Cut out temperature	+13°C
Insulation	Expanded low density polyethylene
Earth protection	100% earth shielded
Cable flexibility	Minimum allowable cable radius is 30mm
IP Rating	IPX7
Dimensions	1.4m to 45.0m
Coldtail lead	1.35m
Fixings	Supplied with zip-ties
Warning stickers	Included within pack

#### Wiring

The unit must be powered by an RCD protected supply, either from the boiler if suitable or from a separate 3amp rated fused spur. A drip loop should be introduced if the power supply is below any section of the heating cable.

#### Installation

If installing onto plastic pipes we recommend wrapping the pipe with an aluminium foil tape first to help dissipate heat. The PipeGuard unit should be loosely zip-tied into place at approximately 500mm intervals with the thermostat resting beneath the pipe where the pipe exits the property. The heating cable should run beneath the pipe for pipes up to 22mm in diameter, and spiralled around the pipe for pipes measuring 23-38mm. Once the unit is in place suitable pipe insulation should be used to lag the pipe, this should be zip-tied into place and the electrical warning stickers should be placed at intervals of 3m.

#### Protection against costly call out charges

Costing from as little as £50 to purchase and designed to be simple to install, Heat Mat PipeGuard represents fantastic value for money. It prevents your boiler stopping or breaking down due to a frozen condensate pipe, and also ensures against the costly call out charges associated with dealing with these issues.

#### Very low running costs

With its dedicated thermostat monitoring the pipe temperature the system ensures it only provides heat when required, ensuring it would normally cost less than 50p per meter per year to operate; significantly less than some alternative systems.

#### Fit and forget

Once the unit is installed no maintenance is required and with its 10 Year Warranty you can be confident it will protect your pipes through the worst the British weather has to throw at us.

#### Designed for Scandinavian winters

Heat Mat PipeGuard is designed to cope with the extreme cold of Scandinavian winters and is reassuringly over-engineered for the very coldest British weather. Internal pipe heating systems are also available where insulation can not be added to the outside of the pipe. Please contact us for more details.



#### About Heat Mat

With more than 900,000m<sup>2</sup> of underfloor heating installed, 16 years' experience of the UK underfloor heating market and a wealth of knowledge on Scandinavian ice and snow melting systems, you can rely on Heat Mat to understand your needs and supply the products to satisfy your requirements.

This is why we are the Professional's Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.



#### Contact Us

Heat Mat Limited  
Ashwyn Business Centre,  
Marchants Way, Burgess Hill,  
West Sussex, RH15 8QY  
T. 01444 247020  
F. 01444 247121

Email [sales@heatmat.co.uk](mailto:sales@heatmat.co.uk)  
[www.heatmat.co.uk](http://www.heatmat.co.uk)

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