

# Heat Mat

## Trace Heating

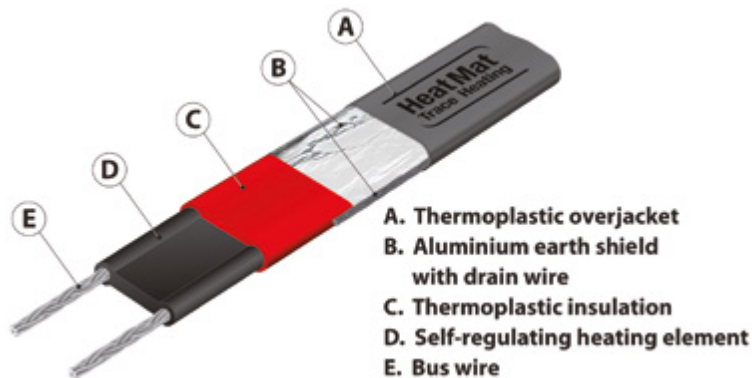
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Trace Heating

## Heat Mat Trace Heating Systems

### Focused heat to prevent water pipes and gutters from freezing and to maintain process temperatures



Trace heating cables provide focused and controllable heat to prevent pipes and gutters from freezing, or to maintain process temperatures.

The major benefits of trace heating are that the specialist cables 'self regulate' their temperature so they cannot overheat, and they can also be cut to length during installation to ensure the perfect fit, every time.

Heat Mat supply a wide variety of high quality European and US manufactured trace heating cables suitable for the vast majority of applications. These heating cables are backed up by a comprehensive range of trace heating, ice and snow melting thermostats and wiring accessories.

- Frost protection of water pipes and condensate/drainage pipes
- Maintain process temperatures
- Ice and snow melting on roofs and in gutters
- Ice prevention in downpipes and waste pipes

- Temperature maintenance of air ducts extracting dust, or of containers for dry food, to prevent condensation build-up and blockages
- A wide variety of cable types and outputs to satisfy various applications
- Standard range from 12W to 28W per meter
- High quality junction boxes and thermostats provide a comprehensive and fast to install system

#### Intelligent cables

Trace Heating cables are significantly more intelligent than 'standard' heating cables. They are created by placing a self-regulating heating element between two bus wires, one live and one neutral. When power is connected to these bus wires the heating element receives 230V, causing it to heat up. Each element contains specialist compounds that change resistance depending on their temperature, leading to the power output of the heating element falling as the cable gets warmer.

#### Trace heating System Features

- A wide variety of high quality trace heating cables and thermostats suitable for protecting water pipes and vessels from freezing conditions
- Cables are suitable for protecting fire sprinkler systems from freezing
- Can be used in gutters and on roofs to prevent ice and snow build up
- Trace heating cable systems for maintaining process temperatures in manufacturing plants
- EX approved heating cables for use in hazardous areas
- Choice of aluminium shielded cables, for speedy installation, or braided earth shield cables, for hazardous areas
- Cables are supplied by the metre and can be cut to length on site, minimising wastage
- Ready made units for internal use within water pipes
- IP65 rated junction boxes and thermostats
- Innovative products, such as silicon termination kits to allow installation of cables on sites where no heat sources are allowed

#### Compatible with:



Ice and snow thermostats



In-Screed cable



Other self-limiting heating cable



### Frost Protection of Pipes

Various systems are available to ensure that water and tanks of all sizes are protected from freezing in cold conditions including specialist cables that can sit within the pipes themselves to prevent external damage.

### Frost Protection of Sprinkler Systems

All water based sprinkler systems should be protected from freezing, trace heating these pipes is the perfect way to protect them. Process temperature maintenance trace heating is suitable for a wide variety of situations where liquids within pipes need to be kept warm to prevent them from congealing. This can include chocolate and oils in food processing plants, piped glues in industrial situations and even air ducting pipes to prevent condensation build up.

### External uses – gutters, drainage channels, hoppers, ramp heating

Trace heating systems are sometimes the product of choice for external situations although constant Wattage cables often provide a better value for money option.

### Protection from overheating cables

As the trace heating cables lower their Wattage output as they heat up, in normal circumstances the cables can be crossed over on top of each other and there is no chance that they will burn out or overheat. This allows particularly cold areas such as taps, joints or tanks to have multiple layers of trace heating without risking damaged cables, in direct contrast to constant Wattage heating cables which can not be crossed over without risking damage.

### Ready-made trace heating lengths

In addition to cut to length trace heating, Heat Mat offer pre-made lengths of 11W/lm heating cable suitable for use within pressured water pipes to prevent them from freezing. The lengths benefit from having a coldtail lead and final termination made in the factory which saves on installation time, and can be introduced into the pipe via a specialist brass gland. These units can also be used to protect boiler condensate pipes from freezing.

### Thermostats and junction boxes

Heat Mat supply a wide variety of thermostats and junction boxes designed for use with cut to length trace heating. These items are all supplied with IP65 rated enclosures to resist moisture ingress and they can be supplied with metal brackets to affix them on top of pipes.

### TRACE HEATING ACCESSORIES



TRA-20A-STAT – 20Amp Trace Heating Thermostat



TRA-JUN-PREM – Premium IP67 4 Way Junction Box



TRA-125-MBRK – Pipe Mounting Bracket for Thermostat and Junction Boxes



TRA-50M-GLFB – 50m Glass Fibre Fitting Tape



### About Heat Mat

With more than 1,400,000m<sup>2</sup> of underfloor heating installed, 22 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 Professionals' Choice, the number one supplier of electric underfloor heating and ice and snow melting systems to the UK's professional installation market.



### Contact us

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