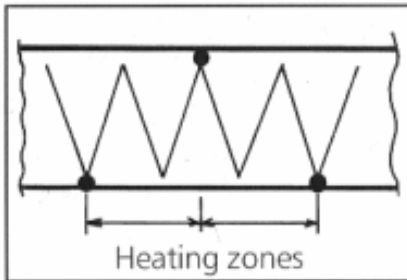


## THERMGARD



Thermgard is used in hotels, offices and hospitals to maintain the temperature of hot water pipework. It has a higher watts capacity than Icegard enabling it to maintain the temperatures between 55° and 100° C. Thermgard is also suitable for many applications including the refrigeration and petro chemicals industries, fuel oils, edible oils, paints, varnishes, resins, waxes and many other viscous materials.

### Technical Description

Infroheat's electric heating tape is a parallel circuit tape heater producing a continuous series of heating zones, each approximately 1 metre long, thus providing a constant watts per metre along the entire length.

Though the tape may be terminated at any point, we recommend that the tape be terminated just past a connecting joint, thus minimising any cold zone.

## PRODUCT DATA

Product Ref	Volts ac	Watts/Metre	Heating Zone Length (mm)	Max. Circuit Length (mtrs)
IHP20/120	110/120	20	1000	50
IHP25/120	110/120	25	1000	40
IHP20/230	220/230	20	800	110
IHP25/230	220/230	25	1000	95
IHP35/230	220/230	35	850	80
IHP40/230	220/230	40	790	70

## SPECIFICATIONS (Table 1)

Heating element	Nickel Chromium
Conductor and size	Copper 1.2 mm <sup>2</sup>
Inner construction	Silicone Rubber
Outer sheath (approx. dimensions) cross section	6mm x 11.5mm
Maximum continuous exposure temperature	200°C
Minimum continuous exposure temperature	-60°C
Approvals Standard	Manufactured to conform to BS 6351 Grade 22 (Highest level of mechanical and water resistance)

(Table 2)

Pipe Size Inch	(Nominal Bore) mm Insulation	Temperatures up to 100°C thickness 25mm
1/2	13	0.29
1	25	0.38
1 1/2	40	0.48
2	50	0.57
3	75	0.77
4	100	0.94
6	150	1.31
8	200	1.61

### Choosing the Infroheat tape for your application

To assist you in selecting the correct tape for your requirements, follow these guide lines:

- i) Establish the pipe size, required operating temperature and the lowest ambient temperature.
- ii) Calculate the difference between the required temperature and the lowest ambient temperature ( $\Delta T$ ). Multiply by the relevant factor from table 2.

### Example

Pipe size = 3 inch

Insulation thickness = 25 mm

Lowest expected temperature = - 5° C

Operating temperature required = + 40° C

$\Delta T = 40^{\circ} \text{C} - (-5^{\circ} \text{C}) = 45^{\circ} \text{C}$

Multiply factor for 3" pipe from table 2 is 0.77

Heat loss per metre of pipe =  $45 \times 0.77 = 34.65 \text{ W/M}$

So the suitable tape for the above application will be Thermgard IHP 35/230 Straight traced along the pipe.

[www.infroheat.co.uk/products\\_thermgard.htm](http://www.infroheat.co.uk/products_thermgard.htm)