

# EN-SUITE & KITCHEN HEATING

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ELECTRIC UNDER FLOOR HEATING

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MIRROR DEMISTERS

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# atc Electric Under Floor Heating

*"It's like walking on Sunshine"*



Bathroom

## Comfort

**atc** electric underfloor heating provides a very comfortable, efficient and economical addition or alternative to standard heating systems. Because it is installed under the floor, the walls in the room are now free and therefore

it is much easier to furnish. **atc** electric underfloor heating is especially suitable for refurbished floors and new floor projects. It adds a fabulous feel of comfort and warmth to bathrooms, kitchens, conservatories or any general living area where ceramic or stone tiles are laid.

### Energy Efficient

By using electric underfloor heating in conjunction with the **atc** thermostats it should be possible to reduce the average room temperature by about 2°C and still retain the same level of comfort. Our thermostats are easy to Install, Programme and Simple to control. They are accurate to 0.4°C and offer the best opportunity in reducing energy costs.

### Healthy Option

Electric underfloor heating creates a healthy and comfortable environment. There is no air movement and therefore no travelling dust particles. This greatly benefits those who suffer from asthma.



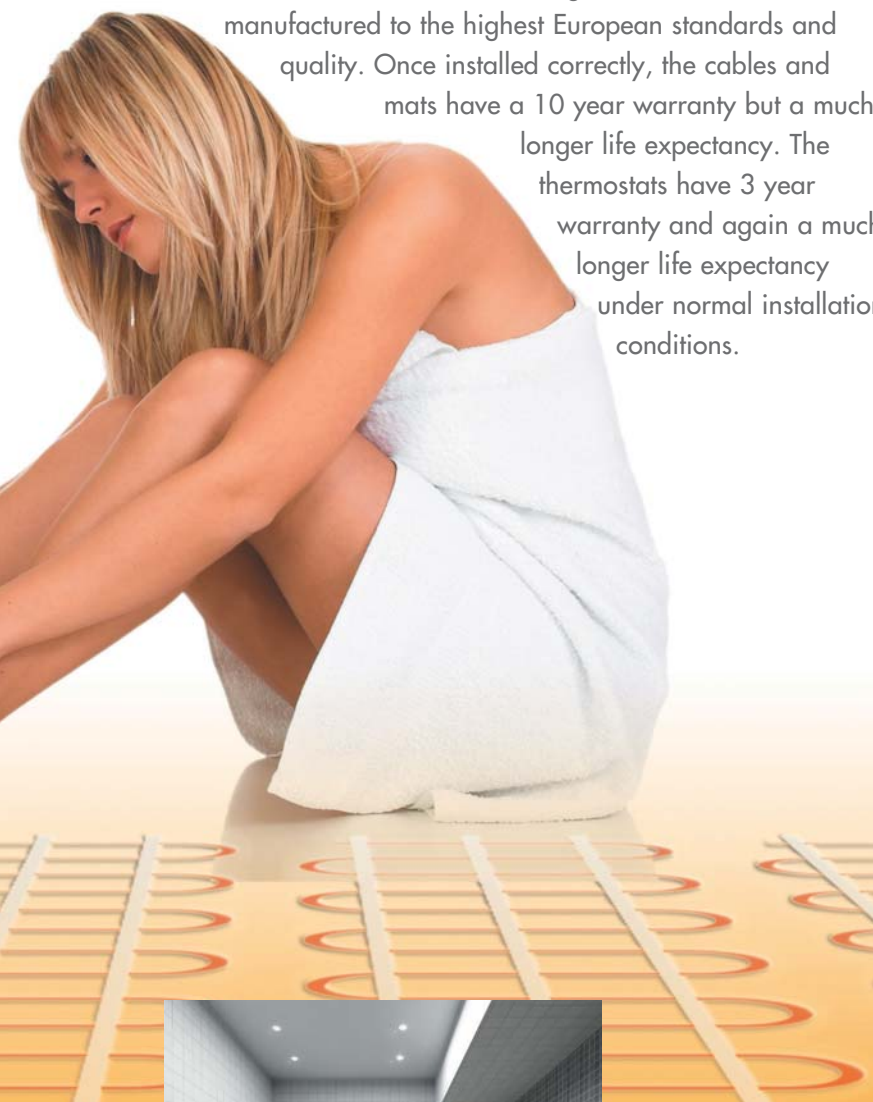
# atc Electric Under Floor Heating

## Maintenance Free

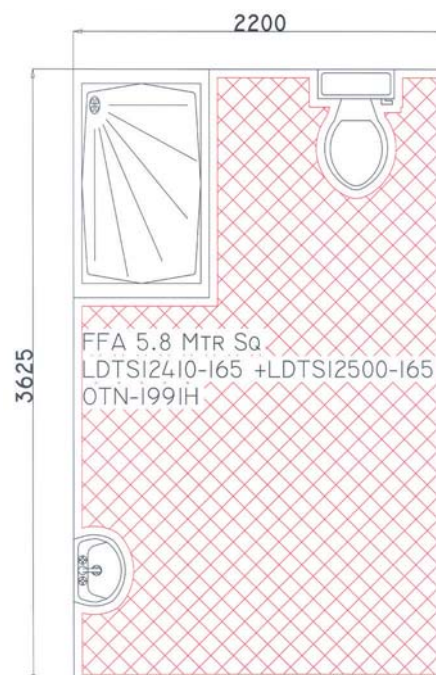
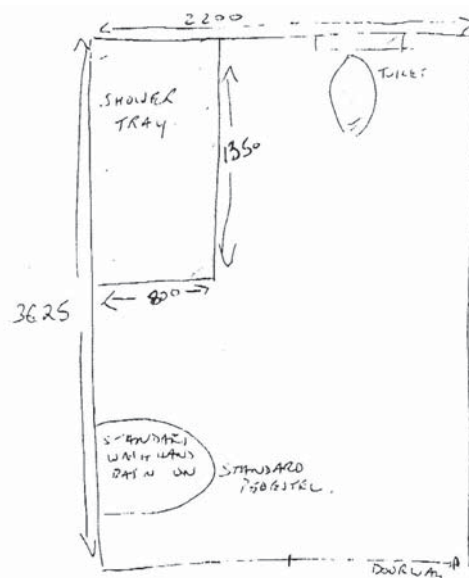
Once the **atc** electric underfloor heating is installed and tested as per the installation guidelines, the system is maintenance free.

## Warranty

The **atc** electric underfloor heating and thermostats are manufactured to the highest European standards and quality. Once installed correctly, the cables and mats have a 10 year warranty but a much longer life expectancy. The thermostats have 3 year warranty and again a much longer life expectancy under normal installation conditions.



## Sample Fax received from customer



## CAD Drawing returned to customer



## Design Facility

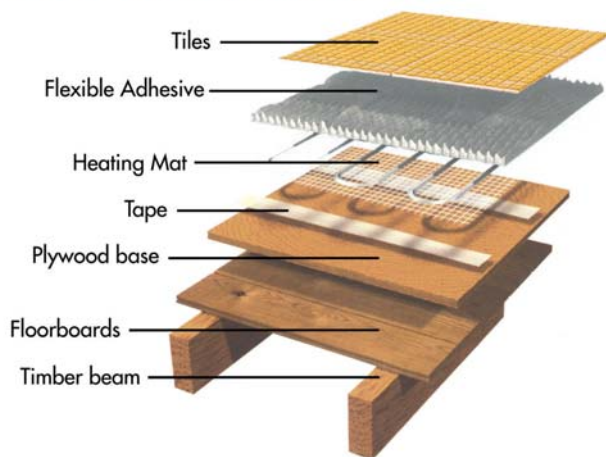
We are committed to providing comprehensive technical support for all under floor heating projects. We are now in a position to offer the most comprehensive design service yet. Simple sketches and dimensions can be converted into a professional drawing plan and quotation. All plans can be electronically sent and received for maximum efficiency e-mail: [sales@atc.ie](mailto:sales@atc.ie)

# atc Floor Types & Thermal Insulation

## TIMBER FLOORS

Marine ply board must be laid over timber and chipboard floors and if possible Thermal Insulation Board (F-Board) before the heating mat is put in place. The heating mat is fixed to the F-Board and completely covered with a flexible tile adhesive before the tiles are laid.

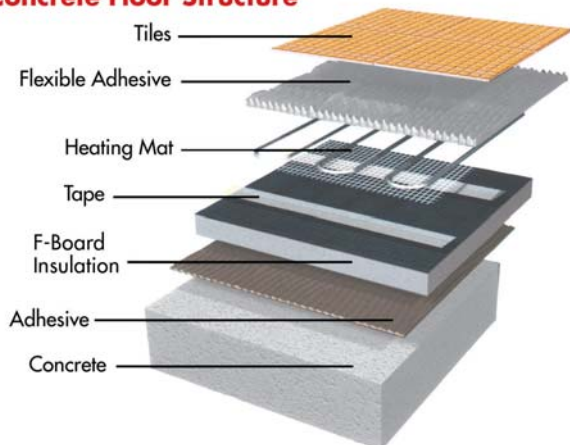
### Timber Floor Structure (Suspended)



## CONCRETE FLOORS

We suggest that a thermal insulation board (F-Board) is laid over and fitted on the concrete floor before the heating mat is put in place. This F-Board greatly reduces the heat-up time of the floor and insulates the floor from downward heat losses.

### Concrete Floor Structure



*Please note: atc electric underfloor heating mats are not designed to be fitted under wood, carpet, cork, vinyl or laminate floors.*

## F-BOARD, THERMAL INSULATION BOARDS



We recommend that the F-Board is installed under the Heating Mats were possible.

### Advantages of using F-Board

- Can significantly reduce the operating costs of electric under floor heating
- Can greatly accelerate the initial heat-up so that a comfortable floor temperature is reached more quickly after switching on
- F-Boards are made from a thermal-insulation material that can accept all water based (solvent free) flexible floor adhesives and will form a strong bond without the need for further priming.
- It is recommended to use an adhesive reinforcing tape for the spaces between the boards prior to laying the cable mat.
- Can be applied to a wide range of underlying sub floor materials such as concrete, wood-fiber boards, chipboards, plasterboards, cement-fiber boards, anhydrite materials, original tiles, fixed wooden foundation, and others.

CODE	F-BOARD THERMAL INSULATION BOARD	BOX QTY	WEIGHT
F-Board 6	1250mm x 600mm x 6mm	6	1.92kg
F-Board 10	1250mm x 600mm x 10mm	6	2.13kg

### Adhesive Tape



CODE	ADHESIVE TAPE
VKC273	PVC DUCT SEALING TAPE 50mm x 33mm

# atc Heating Mats

The **atc** range of electric under floor heating mats should be installed by an electrician or installer who has knowledge of underfloor heating installations. The heating mats can be laid on timber or concrete floors however it is recommended that the mat is laid on insulation board such as F-Board. This will speed up heating time and also ensure that 97% of the heat output is upwards. Heating mats are primarily used for direct heat installations.

## TECHNICAL SPECIFICATIONS

- Heating load is 160w/m<sup>2</sup>
- 15 mat sizes to suit various applications
- Mat sizes from 0.5m<sup>2</sup> through to 16.25m<sup>2</sup>
- Mats can be joined together at the thermostat
- Ideal for direct heating applications
- Easy to install single end connection
- Digital or Electronic Thermostats for simple and accurate control
- Minimises dust and air movement
- Frees up wall space
- Completely safe
- Maintenance free
- 10 year Warranty



## TABLE OF HEATING MAT SIZES

CODE 160W/m <sup>2</sup>	OUTPUT W	WIDTH m	SURFACE m <sup>2</sup>
LDTS 160/ 0,5	80	0.5	0.5
LDTS 160/ 1	160	0.5	1.0
LDTS 160/ 1,5	240	0.5	1.5
LDTS 160/ 2	320	0.5	2.0
LDTS 160/ 2,5	400	0.5	2.5
LDTS 160/ 3	480	0.5	3.0
LDTS 160/ 3,5	560	0.5	3.5
LDTS 160/ 4	640	0.5	4.0
LDTS 160/ 5	800	0.5	5.0
LDTS 160/ 6	960	0.5	6.0
LDTS160/ 7	1120	0.5	7.0
LDTS160/ 8	1280	0.5	8.0
LDTS160/ 10	1600	0.5	10.0
LDTS160/ 11	1800	0.5	11.0
LDTS160/ 12	1800	0.5	12.0
LDTS160/ 13.3	2150	0.5	7.0
LDTS160/ 16.3	2600	0.5	7.0



atc Underfloor heating approved for use with **RAKO** ceramic and stone tiles



**DON'T FORGET**  
Insulation Board on Page 66  
Thermostats on pages 68 - 69

*"It's like walking on Sunshine"*

# Controls for Underfloor Heating

## atc ELECTRONIC THERMOSTAT OTN – 1991H11

The OTN electronic thermostat provides on / off control up to 3600W, 16A. The OTN thermostat is an easy to use thermostat; temperature control is via a simple analogue dial controlling the floor sensor.

The compact, elegant European design is attractive and functional. This thermostat is very reliable and has been on the market for twenty years, making it one of the best selling thermostats due to its reliability and long life. The OTN thermostat has a 3 Year warranty. It is accurate to 0.4°C, ensuring precise control and a high comfort level of the floor surface or room temperature.

### OTN Electronic Thermostat

CODE	OTN ELECTRONIC THERMOSTAT for Electrical Underfloor Heating Supplied with Floor Sensor. 3 Year Warranty	BOX QTY
OTN-1991H-OJA2	OTN Electronic Thermostat for Electrical Underfloor Heating c/w Floor Sensor	1



OTN

### Spare Floor Sensor & Protective Tubing

CODE	SPARE FLOOR SENSOR	BOX QTY
ETF199	Universal Floor Sensor for Stats	1
2.5mtconduit16mm	16mm Protective Tubing 2.5mt	1



Floor Probe.



# Controls for Underfloor Heating

## atc DIGITAL THERMOSTATS

The ICD3 digital thermostat for electrical underfloor heating has a built-in 4 event timer, factory set for immediate operation after installation. It is an easy to use thermostat and the pre set programme can be changed to suit individual needs in seconds.

The thermostat can control a power load up to 3600W, 16A and the heating output is switched on and off with a differential of only 0.4°C. This clock thermostat has a built-in room sensor and floor limit sensor.

The new, modern design is attractive for all applications. It has a graphical backlit display for ease of use. This thermostat saves the installer time during installation and provides the end user ease of use, reliability and long life. The ICD3 thermostat has IP 20 protection and a 3 Year warranty.

### ICD3 Digital Thermostat

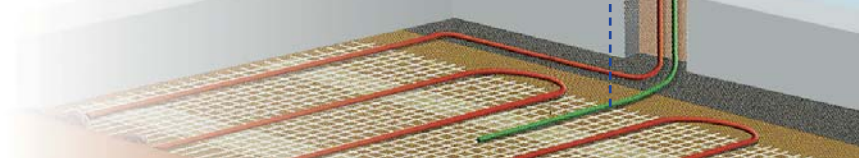
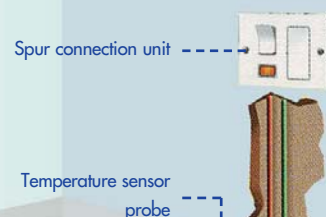
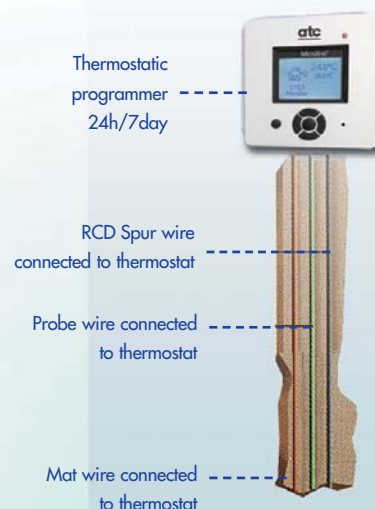
CODE	ICD3 DIGITAL THERMOSTAT for Electrical Underfloor Heating with built-in Room Sensor and Floor Limit Sensor. 3 Year Warranty	BOX QTY
ICD3-1999	ICD3 Digital Thermostat for Electrical Underfloor Heating with built-in Room Sensor and Floor Limit Sensor	1
MCD5-1999	Digital Touchscreen Thermostat for Underfloor Heating with Built in room sensor 16A 3600W up to 22m <sup>2</sup>	1



ICD3



MCD5-1999



# atc Heated Towel Radiators

**For Bathrooms and Kitchens**







**atc** Electric Towel Radiators are modern in design and aesthetically pleasing to the eye. Manufactured with low carbon steel ensuring product longevity, high quality and environmentally friendly.

## Manufacturing Process

- Manufactured with low carbon steel ensuring product longevity
- Process includes Oxsilan passive rust protection on each radiator
- Radiators are filled with High Quality Renolin Heating Fire Oil ensuring high performance heat output
- Oil is mixed with Mobilterm 594 fluid to prevent internal corrosion, rust and is frost resistant to -30°C
- Antibacterial Coating Towel Radiators available
- Metallic Finishes are available in certain colours

## Quality and Warranty

- Towel Radiators manufactured in Europe
- All Chrome Towel Radiators are hand polished ensuring state of the art galvanic coating
- Each Towel Radiator is 100% leak tested
- 8 Year Long Life Warranty on each Towel Radiator
- Manufactured to EN 10305-5

## Ease of Installation

- Towel Radiators are easy and quick to install
- Towel Radiators already fitted with electric REG2 pre wired element
- Element maintains a constant 65°C and is protected by temperature sensor
- A small spherical LED on element shows on / off operation
- Element suitable for connection to external timer or intelligent building systems

## Stylish. Any Colour You Want

- ATC Towel Radiators are available in Chrome or White as standard in eight sizes
- White and Painted finish radiators will gain 30% higher output compared to Chrome plate finished radiators.
- We can offer any colour Towel Radiator to suit your application or project
- RAL Colour Chart on page 73.

# atc Electric Heated Towel Radiators

## ATC STRAIGHT ELECTRIC TOWEL RADIATORS CHROME

PART CODE	HEIGHT (MM)	WIDTH (MM)	WEIGHT (KG)	FIXED HEATING ELEMENTS
TRCS660-400-200W	660	400	7.8	200W
TRCS900-500-300W	900	500	12.4	300W
TRCS900-600-300W	900	600	14.2	300W
TRCS1140-500-400W	1140	500	15.5	400W
TRCS1140-600-400W	1140	600	17.8	400W
TRCS1380-500-400W	1380	500	18.8	400W
TRCS 1620-500-600W	1620	500	21.9	600W
TRCS1620-600-600W	1620	600	25.2	600W



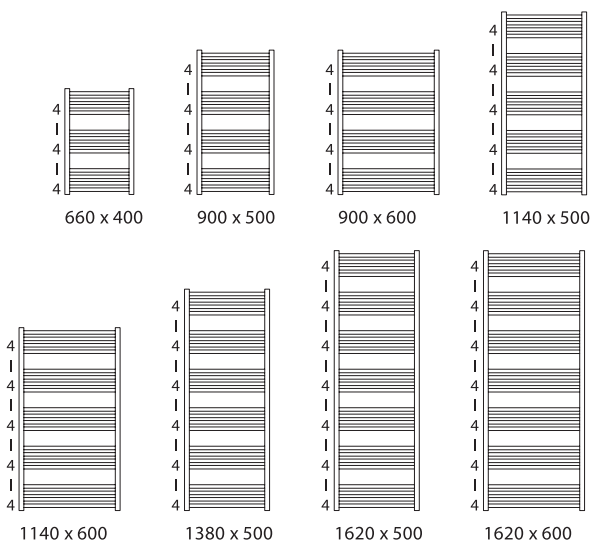
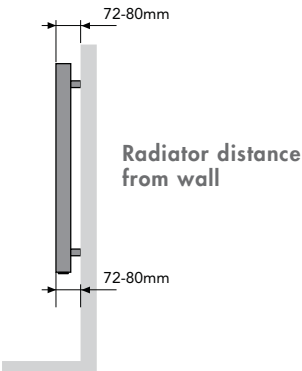
## ATC STRAIGHT ELECTRIC TOWEL RADIATORS WHITE

PART CODE	HEIGHT (MM)	WIDTH (MM)	WEIGHT (KG)	FIXED HEATING ELEMENTS
TRWS660-400-200W	660	400	6	200W
TRWS900-500-400W	900	500	9.5	400W
TRWS900-600-400W	900	600	10.9	400W
TRWS1140-500-600W	1140	500	12	600W
TRWS1140-600-600W	1140	600	13.8	600W
TRWS1380-500-600W	1380	500	14.5	600W
TRWS1620-500-800W	1620	500	16.9	800W
TRWS1620-600-800W	1620	600	19.4	800W



### ELEMENT SPECIFICATIONS

Power Supply: 230VAC  
 Device protection class: Class 1  
 Radiator connection: G 1/2"  
 IP Rating: IPX5



# Heated Towel Radiators Ral Colours Available

## RAL COLOURS PALETTE

RAL: CODE:	1000 100	1001 101	1002 102	1003 103	1004 104	1005 105	1006 106	1007 107	1011 111	1012 112	1013 1013	1014 114	1015 115	1016 116
1017 117	1018 118	1019 119	1020 120	1021 121	1023 123	1024 124	1027 127	1028 128	1032 132	1033 133	1034 134	1037 137	2000 200	2001 201
2002 202	2003 203	2004 204	2008 208	2009 209	2010 210	2011 211	2012 212	3000 300	3001 301	3002 302	3003 303	3004 304	3005 305	3007 307
3009 309	3011 311	3012 312	3013 313	3014 314	3015 315	3016 316	3017 317	3018 318	3020 320	3022 322	3027 327	3031 331	4001 401	4002 402
4003 403	4004 404	4005 405	4006 406	4007 407	4008 408	4009 409	4010 410	5000 500	5001 501	5002 502	5003 503	5004 504	5005 505	5007 507
5008 508	5009 509	5010 510	5011 511	5012 512	5013 513	5014 514	5015 515	5017 517	5018 518	5019 519	5020 520	5021 521	5022 522	5023 523
5024 524	6000 600	6001 601	6002 602	6003 603	6004 604	6005 605	6006 606	6007 607	6008 608	6009 609	6010 610	6011 611	6012 612	6013 613
6014 614	6015 615	6016 616	6017 617	6018 618	6019 619	6020 620	6021 621	6022 622	6024 624	6025 625	6026 626	6027 627	6028 628	6029 629
6032 632	6033 633	6034 634	7000 700	7001 701	7002 702	7003 703	7004 704	7005 705	7006 706	7008 708	7009 709	7010 710	7011 711	7012 712
7013 713	7015 715	7016 716	7021 721	7022 722	7023 723	7024 724	7026 726	7030 730	7031 731	7032 732	7033 733	7034 734	7035 735	7036 736
7037 737	7038 738	7039 739	7040 740	7042 742	7043 743	7044 744	7045 745	7046 746	7047 747	8000 800	8001 801	8002 802	8003 803	8004 804
8007 807	8008 808	8011 811	8012 812	8014 814	8015 815	8016 816	8017 817	8019 819	8022 822	8023 823	8024 824	8025 825	8028 828	9001 901
9002 902	9003 903	9004 904	9005 9P5	9005 mat 9M5	9006 906	9007 907	9010 910	9011 911	9016 916	9017 917	9018 918			

Colors shown above may vary from the actual color finishes due to printing or screen differences. In order to select the exact color that is required, please contact the ATC Technical Department to view the Special Color Palette. Contact [sales@atc.ie](mailto:sales@atc.ie) for details on pricing and minimum order quantities.



Radiator Shown: RAL3011



Radiator Shown: RAL9016

# atc Mirror Demisters

**Eliminate Steamed Up Mirrors**



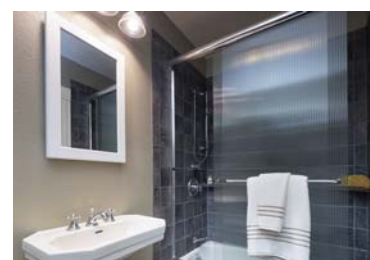
# Mirror Demisters

Steamed up bathroom mirrors were always accepted as an everyday problem that couldn't be solved.....until the introduction of Mirror Demisters. No more blurred or steamy mirrors; just turn on the light to see your reflection crystal clear.

They are simple to fit, economical to run, completely safe and maintenance free. They are UL & CE approved and have a 5 year warranty.

CODE 220/240V	SIZE (MM)	NOMINAL WATTS	BOX QTY
R-1111	252 x 274	15	1
R-1121	274 x 574	25	1
R-2121	519 x 524	50	1
R-2141	524 x 1004	100	1

*Supplied with 1m cable*



## Approvals

Class 11 product complying to the following standards.

EC/INTERNATIONAL Approved to EN60 335-2-30:1997 & IEC 335-2-30:1996  
 USA Recognised component by UL: certificate No. E 151390  
 CANADA Recognised component by UL: certificate No. E 151390



- **Simple to fit**
- **Low cost**
- **Economical to run - just 0.1 cent per hour!**
- **Completely safe**
- **Maintenance free**
- **Approved to international standards**
- **5 year warranty**



## What is a Mirror Demister

Mirror Demisters are a simple efficient, ultra slim heating pad that fits inconspicuously behind most bathroom mirrors - existing or newly installed. Once fitted, the mirror will never steam up in and around the area of the pad.



### Easy to Fit

The pad is self adhesive, fits to the back of virtually any mirror and simply wires into the bathroom light fitting, fan or separate switch if preferred. Running costs are almost insignificant.

SELF ADHESIVE  
 To be placed on back of mirror