

## WLFH Warmup® foil heater system

The Warmup foil heater system is designed for use under most wooden and floating floors. It can be used to safely heat under carpet, vinyl and other resilient floors, when combined with Warmup insulated underlay and dual overlay. Simple to install, the foil heater system delivers a consistent and even heat distribution. It can also be installed under the floor finish in dry areas without the need for additional earth grids.



### ✔ Product Features

- ✔ Installed directly under floor finish; no self-levelling required
- ✔ Super-thin, fully earthed flat aluminium foil will not raise floor levels
- ✔ Wire based system, can be adapted to fit around objects, no need for complicated wiring
- ✔ Single connection lead allows faster installation
- ✔ 15 Years Warranty and SafetyNet™ Installation Guarantee

### 🔧 Technical Data

- ✂ Construction: **ECTFE wire encased in aluminium foil**
- ✂ Supply voltage: **220-240V, 50Hz**
- ✂ Foil width: **500mm**
- ✂ Foil thickness: **1mm**
- ✂ Output rating: **140W/m²**
- ✂ Cold tail length (connection lead): **3m**
- ✂ Approvals: **BEAB, European compliant and CE marked**



### 📏 Dimensions

Area (m²)	Model	Wattage (W)	Amperage (A)	Resistance (Ω)
1	WLFH1	140	0.6	378
1.5	WLFH1.5	210	0.9	252
2	WLFH2	280	1.2	189
3	WLFH3	420	1.8	126
4	WLFH4	560	2.4	94
5	WLFH5	700	3.0	76
6	WLFH6	840	3.7	63
7	WLFH7	980	4.3	54
8	WLFH8	1120	4.9	47
9	WLFH9	1260	5.5	42
10	WLFH10	1400	6.1	38
12	WLFH12	1680	7.3	31

## DWS Warmup® loose wire system

Warmup loose wire heating systems are designed to be tough enough for professional use, yet easy to install. The small cross-section of the heating element allows it to be installed without the need for a layer of self-levelling screed. Floor levels will not be raised. This means no extra costs, or time for the system to dry, once laid the floor finish can be installed.



### ✔ Product Features

- ✔ Ultra-thin dual-core heating element won't raise floor levels
- ✔ Toughest and thinnest wire you can buy: 2mm, multi-strand core, double-insulated using advanced fluoropolymers
- ✔ Quick installation – Single connection lead for faster installation
- ✔ Lifetime Warranty and SafetyNet™ Installation Guarantee

### 🔧 Technical Data

- ✂ Construction: **multi-strand core, double-insulated using advanced fluoropolymers**
- ✂ Supply voltage: **220-240V, 50Hz**
- ✂ Cable thickness: **2mm**
- ✂ Inner insulation: **Advanced fluoropolymer (ETFE)**
- ✂ Outer insulation: **Advanced fluoropolymer (ETFE)**
- ✂ Cold tail length (connection lead): **3m**
- ✂ Approvals: **BEAB, European compliant and CE marked**



### 📏 Dimensions

Area to be heated (m²)	Model	Cable length (m)	Wattage (W)	Amperage (A)	Resistance (Ω)
1.5 - 2.4m²	DWS300	22	300	1.3	176
2.5 - 3.4m²	DWS400	32	400	1.7	128
3.5 - 4.4m²	DWS600	44	600	2.6	88
4.5 - 5.9m²	DWS800	64	800	3.6	64

## WIS Warmup® inscreed cable system

The Warmup inscreed heating cable system is excellent for installation in new build projects and was designed to be embedded in a concrete layer of 50 to 100mm. Can be used under any type of final floor.

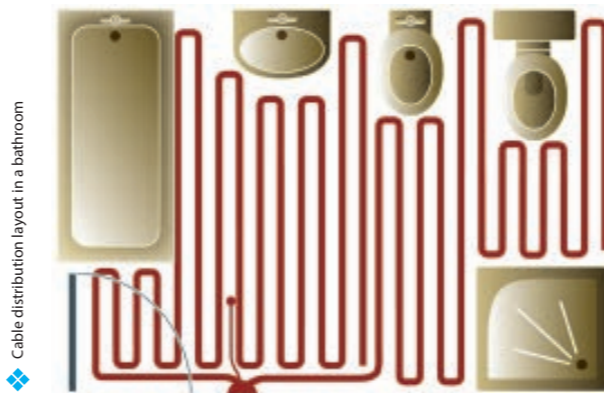


### ✔ Product Features

- ✔ Ideal for new build
- ✔ Tough - 6mm thick heating cable is protected by multiple layers of metal shielding and insulation
- ✔ Grounding braid makes it safe for wet rooms
- ✔ Versatile - compatible with all floor finishes
- ✔ Floor covering can be changed without risk of damage to the heater
- ✔ 10 Years Warranty and SafetyNet™ Installation Guarantee

### 🔧 Technical Data

- ✂ Construction: **earth screened twin conductor**
- ✂ Supply voltage : **220-240V, 50Hz**
- ✂ Output rating: **20W/m**
- ✂ Cable thickness: **6mm**
- ✂ Cold tail length (connection lead): **2,5m**
- ✂ Inner insulation: **ECTFE (advanced fluoropolymer)**
- ✂ Outer insulation: **PVC**
- ✂ Approvals: **European compliant and CE marked**



### 📏 Dimensions

Model	Wattage (W)	Cable length (m)	Amperage (A)	Resistance (Ω)
WIS180	180	9	0.8	294
WIS280	280	14	1.2	189
WIS390	390	19.5	1.7	136
WIS500	500	25	2.2	106
WIS650	650	32.5	2.8	81
WIS760	760	38	3.3	70
WIS1000	1000	50	4.3	53
WIS1200	1200	60	5.2	44
WIS1460	1460	73	6.3	36
WIS1550	1550	77.5	6.7	34
WIS1770	1770	88.5	7.7	30
WIS2070	2070	103.5	9	26
WIS2600	2600	130	11.3	20
WIS3140	3140	157	13.6	17
WIS3370	3370	168.5	14.6	16

## WIB Warmup® insulation boards

Insulation is a vital component of your Warmup underfloor heating system. It is not only needed to comply with Building Regulations but the use of high quality insulation will improve efficiency and reduce running costs whilst increasing the responsiveness of the system.

Warmup insulation boards, designed to withstand a load of 30 tonnes per square metre are water resistant, insulated tile backer board, made of extruded polystyrene, faced on both sides with a fibreglass mesh embedded into a thin cement polymer mortar.



### 🔧 Technical Data

- ✂ Construction: **made of extruded polystyrene, faced on both sides with a fibreglass mesh embedded into a thin cement polymer mortar**
- ✂ Compressive strength: **Able to withstand load of 3.0 kg/cm² (300kN/m²)**
- ✂ Thermal resistance (m²oK/W): **6mm - 0,16; 10mm - 0,28; 20mm - 0,59; 50mm - 1,53**
- ✂ Water Absorption (Capillary): **Nil**
- ✂ Fire rating: **Class "E" (EN13501-1)**

### 📏 Dimensions

- ❖ Length: 1250mm
- ❖ Width: 600mm
- ❖ Thickness: 6, 10, 20 and 50mm
- ❖ Coverage: 0,75m²

# Warmup®

The world's **best-selling** floor heating brand™

## Announcing the New

# 4iE

SMART WIFI THERMOSTAT



The smart ways the 4iE™ finds to heat your home more efficiently could save you up to 22% on the average energy bill.

Why choose electric floor heating?

The temperature levels and air quality inside homes are key factors for human comfort. Increasingly, specifiers, builders and installers are moving away from traditional heating systems to floor heating. Warmup suggests that there are a number of key considerations when it comes to choosing your heating system and recommends a “holistic” view of the dwelling. Consider the comfort and the performance of the dwelling simultaneously with the selection of a system that will ensure it is comfortable to use, whilst being inexpensive and convenient to run. This is one of the key reasons why customers are increasingly looking to Warmup electric floor heating; a one-off supply cost for a system that requires no maintenance (often coming with a lifetime warranty) and very cost effective to run.

Warmup electric floor heating is ideal for new-build, refurbishments and renovations, and uses considerably less energy than traditional systems, heating objects first rather than the air.

The benefits

Warmup is the World’s best-selling floor heating brand™

Some of the reasons are as follows:

**Suitable for every type of project** – new/self build, refurbishment and renovation.

**Bespoke solutions** – from a single room to the whole house, Warmup can provide a tailored solution to match individual needs and budget.

**Comfort** – warmth and an extremely high level of comfortable temperature is consistently achieved.

**Energy efficiency - underfloor heating gives the user control** – Provides rapid heat-up time, high-efficiency heating. It requires significantly less energy and it enables the temperature of each room to be accurately controlled as needed, allowing you to heat the rooms you want – when you want, with no energy wasted.

**Remote temperature control in each zone** – comprehensive range of thermostats including the 4iE™ Wi-Fi energy-monitor thermostat allowing you to choose the temperature levels you require, from anywhere using your smartphone.

**Cost savings** – because underfloor heating uses a lower temperature than standard radiators, heating costs are reduced and savings can be achieved by around 10% on heating bills.

**Design freedom** – floor heating is a designer’s dream with no bulky radiators to take up valuable wall and floor space.

**Health benefits** – floor heating reduces humidity preventing dust mites from surviving and the radiant heat it gives out reduces dust circulation.

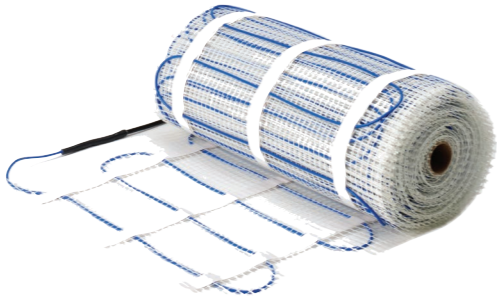
**Safety** – delivers a family-friendly and safe environment. No low level hot surfaces or hard metal edges that come with a radiator system, creating a potentially unsafe and dangerous environment for children, the elderly or those vulnerable and at risk.

**No maintenance** – reducing costs even further.

**Best warranties and guarantees** – most systems come with a lifetime warranty and all systems come with a SafetyNet™ installation guarantee.

PVC Warmup® PVC heating mat system

The PVC floor heating mat systems are designed to be tough enough for professional use, yet easy to install for do it yourself enthusiasts. The radiant heating cable is attached to a tough fibreglass mesh. The PVC mat system utilises our dual core heating element and with only one power lead to wire, it is easy to install in just a matter of hours, without raising floor levels.



Dimensions

Area (m²)	Model	Wattage (W)	Amperage (A)	Resistance (Ω)
1	PVC1	150	0.7	353
1.5	PVC1.5	225	1.0	235
2	PVC2	300	1.3	176
2.5	PVC.5	375	1.6	141
3	PVC3	450	2.0	118
3.5	PVC3.5	525	2.3	101
4	PVC4	600	2.6	88
4.5	PVC4.5	675	2.9	78
5	PVC5	750	3.3	71
6	PVC6	900	3.9	59
7	PVC7	1050	4.6	50
8	PVC8	1200	5.2	44
9	PVC9	1350	5.9	39
10	PVC10	1500	6.5	35
11	PVC11	1650	7.2	32
12	PVC12	1800	7.8	29
15	PVC15	2250	9.8	24

150W/m²

Also available in 200W/m²

4iE Warmup® 4iE™ Smart WIFI Thermostat

Smarter. Better. Remotely Controlled.  
For central heating and floor heating

The 4iE learns how you use your heating and how your house reacts, suggesting you ways to save energy.



Product Features

- ✔ **Promotes zero wasted energy:** the 4iE automatically advises how to keep your home warm more efficiently
- ✔ **Programs itself:** 4iE can create a heating schedule based on how you use it, or you can create your own with the intuitive new menu
- ✔ **Remotely controlled:** control with your smartphone, tablet or desktop, everywhere
- ✔ **Personalised:** Get apps like weather forecasts on the home screen and even upload a photo background



Product Features

- ✔ Ideal for direct heating under tiled or stone floors
- ✔ Thinnest wire you can buy: 2mm, multi-strand core, double-insulated using advanced fluoropolymers
- ✔ Sturdy fibreglass mesh for extra durability and super-sticky double-sided tape for secure installation
- ✔ Quick installation - Simply roll out mat with pre-spaced wire
- ✔ Flexible - no customizing is necessary
- ✔ Guarantees: 10 years Warranty

Technical Data

- ✂ Construction: **dual core heating cable attached to a resistant fiberglass mesh**
- ✂ Supply voltage: **220-240V, 50Hz**
- ✂ Mat thickness: **2mm**
- ✂ Mat width: **50cm**
- ✂ Inner insulation: **Advanced fluoropolymer (ETFE)**
- ✂ Outer insulation: **PVC**
- ✂ Output rating: **150 W/m² and 200W/m²**
- ✂ Cold tail length (connection lead): **3m**
- ✂ Approvals: **SEMKO and CE marked**



3iE Warmup® 3iE™ Energy-Monitor Thermostat

The 3iE™ energy-monitor delivers precise heat control by having the most sensitive adaptive software to ensure that energy is being used only when required. This means no wasted energy, reducing the costs associated with overheating and saving up to 10% on utility bills.



Technical Data

- ✂ Supply voltage: **220-240V, 50Hz**
- ✂ Load: **16A, 3600W**
- ✂ IP rating: **IP20 or IP32 (with gasket)**
- ✂ Dimensions (H/W/D): **90 x 110 x 30 mm**
- ✂ **BEAB approved**

tempo Warmup® Tempo™ Digital Programmable Thermostat

The Tempo™ enables to choose the time as easily as you would with a watch or clock and quickly set the programs - heat on when you want it and off when you don’t need it.



Technical Data

- ✂ Supply voltage: **220-240V, 50Hz**
- ✂ Load: **16A, 3600W**
- ✂ Battery back-up: **3 months**
- ✂ IP rating: **IP20**
- ✂ Dimensions (H/W/D): **90 x 113 x 23 mm**
- ✂ **BEAB approved**



Innovation and a tradition for quality

Warmup is a British based manufacturing company, creating and delivering floor heating solutions for 20 years to domestic and commercial markets. We offer bespoke systems to a diverse range of customers including specifiers, builders and installers.

Warmup has established subsidiary operations in 11 countries and in total exports to more than 50 countries around the world.

The combination of our fluoropolymer based wire coatings, 3iE™ Energy-Monitor Thermostat and tempo™ Digital Programmable Thermostat is patented, trade mark protected and world leading.

Warmup began as, and remains a knowledge and research-driven UK business. We make proprietary, world-leading products that are tested in our EN442-2 research centre in Germany and in various post occupancy monitoring houses in Europe, including the Building Research Establishment (BRE) in Watford, Hertfordshire, England.

Warmup products comply with European norms, are CE marked and approved by many recognized and important standards including:



We only use the very best materials, and our inhouse quality control stands support our core processes.

**For best in class, quality and service – you can count on Warmup.**



Next Step – Contact us

We would like to have the opportunity to quote for your business and to demonstrate to you how Warmup is different from others. We would therefore invite you to contact us:

T 1 800 937 429    ie@warmup.com  
www.warmup.ie

Local Representative:

