

ENGINEERING  
TOMORROW

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Danfoss Underfloor heating

# Find optimal thermal **comfort** with underfloor **heating** systems

With products for both electric and hydronic underfloor heating systems, our solutions will fit any new build or renovation project.



[heating.danfoss.co.uk](http://heating.danfoss.co.uk)

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Click on a code number to view the item directly in the Product Store or to speak to a Danfoss expert to get more information

*N.B. Underfloor heating relies on the heat produced being unrestricted. If it is restricted, it may cause "hot spots" and, at worst, discolour the floor. Things such as beanbags, mattresses laid directly on the floor may cause problems. Any object that allows air movement underneath it is OK*

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# Hydronic Floor Heating Controls



Floor heating should be room controlled to balance the needs and desires of individuals around the home whilst also lowering your energy bill.

Which is why our hydronic floor heating controls combine perfect system balance from pre-setting valves with independent room control to provide optimal comfort and savings.

Each of our products offer significant benefits from child safety locks and tamper-proof designs to adaptive learning where the system uses intelligent forecasting to calculate when to initiate heating and reach the desired temperature in time for breakfast.

All our products have been through our advanced test centre to simulate different requirements. Using the results to refine our products in regards to heat absorbing and floor heating reaction time and more to offer you both secure comfort and significant energy savings.

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# Hard wired controls 230V



- Wiring centre ideal for hydronic floor heating systems
- Can be connected to 230V thermal actuators
- Can control up to 8 zones
- Directly powered by standard 230Vac/50Hz without the need for external transformer

Hard-wired Systems Wiring Box - FH-WC 230V Output	
Code No.	<b>088H012801</b>
Number of zones (thermostats in/thermal actuator zones out)	8
Time channels (requires external 1-channel or 2-channel time control)	2 <sup>(1)</sup>
Boiler interlock relay, (voltage free) <sup>(2)</sup>	SPST, 6(2)A
Pump interlock relay, (voltage free) <sup>(2)</sup>	SPST, 6(2)A
Supply voltage	230Vac, ±15%, 50/60Hz
Output voltage (to zone thermostats and thermal actuators)	Max 250Vac
Output per channel	up to 0.5A
Dimensions (mm)	314 wide x 110 high x 81 deep

Notes:

(1) One of two time channels can be assigned at time of installation to each thermostat.

(2) Boiler and pump relays are activated whenever one or more zone thermostats call for heat.

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# Danfoss Icon 230V



The Icon™ 230V Wiring Center can connect up to 14 thermal actuators from up to 8 room thermostats. It is provided with 230V Live circulation pump output and voltage-free relays for controlling a boiler. The relays are activated when one or more thermostats require heat.

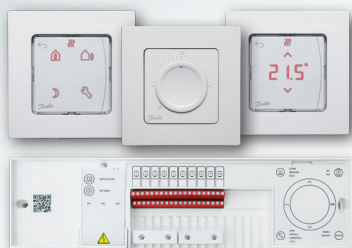
Danfoss Icon™ 230V Wiring Center, 8 channel, NP	
Code No.	<b>088U1042</b>
Max. number of thermostats	8
Max number of actuators	14
Supply voltage	220-240 V AC
Ambient temp. range, operation	0 °C to 50 °C
Output relay, boiler	Voltage-free Max. 2 A
Output relay, pump	230 V Max. 100 W

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# Danfoss Icon 230V



- Dial, Display and Programmable models
- Controls up to 5x NC/NO actuators
- In-wall and on-wall installation
- Compatible with FH-WC Wiring centre
- User interface that fades out when not in use (Programmable/Display only)
- Intuitive and easy set up with pre-defined schedules (Programmable only)

Description	Code Number
<b>230V</b>	
Danfoss Icon™ Room Thermostat, 230V dial in-wall	<b>088U1001</b>
Danfoss Icon™ Room Thermostat, 230V display in-wall	<b>088U1011</b>
Danfoss Icon™ Room Thermostat, 230V programmable in-wall	<b>088U1021</b>
Danfoss Icon™ 230V Dial Featured, NSB, remote sensor (air/floor)	<b>088U1006</b>
Danfoss Icon™ 86x86 Tamperproof cover	<b>088U1113</b>
Danfoss Icon™ Floor Sensor for 24V & 230V	<b>088U1110</b>
TS2A Remote Air Temperature Sensor (only for 088U1006)	<b>087N7748</b>

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# BasicPlus<sup>2</sup> Thermostats



## WT-D, WT-DM, WT-DR, WT-P & WT-PR:

- 3 selectable temperature control modes
- Floor sensor terminals
- Voltage-free auxiliary SPST relay (WT-DR & WT-PR only)

## WT-T:

- Set optimal thermal comfort with the dial
- Frost symbol for minimal energy consumption whilst avoid freezing temperatures

Basic Plus <sup>2</sup> Thermostat	Description	Code No.
WT-T	Dial with LED indicator	<b>088U0620</b>
WT-D	LCD display with push buttons	<b>088U0622</b>
WT-DR	LCD display with push buttons. Voltage-free auxiliary relay	<b>088U0624</b>
WT-P	LCD display with push buttons, programmable	<b>088U0625</b>
WT-PR	LCD display with push buttons, programmable. Voltage-free auxiliary relay	<b>088U0626</b>
WT-DM	LCD display with push buttons. Modbus communication (BMS)	<b>088U0627</b>
FH-CWF	Floor sensor for use with WT-DR or WT-PR	<b>088U0610</b>

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# TS710 Time Switch



- Single channel switching with volt free relay
- 7 Day, 5/2 Day & 24Hr schedules
- 1, 2 or 3 heating periods (2, 4 or 6 events)
- Auto, Boost, On or Off modes
- Holiday override
- Battery back-up
- Service Due Timer

Description	Code No.
LCD backlit display with push buttons	<b>087N7881</b>

# Hard wired controls 24v output

- Incorporates separate boiler and pump interlocks
- Convenient and easy to wire
- Connects up to 10 actuators to the room thermostats
- Single room temperature control
- Manual night set-back
- Optional connection for floor sensor
- Tamper-proof



Hard wired Systems Wiring Box - FH-WC 24V Output	
Code No.	<b>088H001701</b>
Number of zones (thermostats in/thermal actuator zones out)	10
Time channels (requires external 1-channel or 2-channel time control)	2 <sup>(1)</sup>
Boiler interlock relay, (voltage free) <sup>(2)</sup>	SPST, 6(2)A
Pump interlock relay, (voltage free) <sup>(2)</sup>	SPST, 6(2)A
Supply voltage	24Vac, +/- 15%, 50/60Hz
Output voltage (to zone thermostats and thermal actuators)	24Vac
Output per channel	up to 0.5A
Dimensions (mm)	314 wide x 110 high x 61 deep

Notes:

(1) One of two time channels can be assigned at time of installation to each thermostat.

(2) Boiler and pump relays are activated whenever one or more zone thermostats call for heat.

Wired Controls, 24V Output	Code No.
FH-WT, Dial setting room thermostat with setback	<b>088H0022</b>
FH-WP, Tamperproof room thermostat	<b>088H0023</b>
FH-WF, Floor sensor for FH-WS room thermostat, 30kohm, 20°C, cable length 3m	<b>008H0025</b>

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# Danfoss Icon 24V



- Display and Programmable models
- Controls up to 5x NC/NO actuators
- In-wall and on-wall installation
- Compatible with FH-WC Wiring centre
- User interface that fades out when not in use (Programmable/Display only)
- Intuitive and easy set up with pre-defined schedules (Programmable only)



Description	Code Number
<b>24V</b>	
Danfoss Icon™ Room Thermostat, 24V Display On-wall	<b>088U1055</b>
Danfoss Icon™ Room Thermostat, 24V Display In-wall	<b>088U1051</b>
Danfoss Icon™ Room Thermostat, Wireless, Display On-wall	<b>088U1081</b>
Danfoss Icon™ Room Thermostat, Wireless, Infrared, Display On-wall	<b>088U1082</b>
Danfoss Icon™ Room Thermostat, Wireless, Dial On-wall	<b>088U1080</b>
Danfoss Icon™ Floor Sensor for 24V and 230V	<b>088U1110</b>
Danfoss Icon™ Master, 24V, 10 channel, NP	<b>088U1147</b>
Danfoss Icon™ Master, 24V, 15 channel, NP	<b>088U1148</b>
Danfoss Icon™ Zigbee Module	<b>088U1130</b>
ICON™ App Module	<b>088U1101</b>
ICON™ Expansion Module	<b>088U1100</b>
ICON™ Wireless Module	<b>088U1103</b>
ICON™ Repeater	<b>088U1102</b>

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# Thermal Actuator TWA

- Simple two wire operation
- Can be used with a wide variety of small seated valves
- Available in Normally Open and Normally Closed configurations
- Suitable for use on AC and DC circuits
- Position indicator



Description <sup>(1)</sup>	Connection	Code No.
TWA-A NC (230V)	RA	<b>088H3112</b>
TWA-A NO (230V)	RA	<b>088H3113</b>
TWA-A NC (24V)	RA	<b>088H3110</b>
TWA-A NO (24V)	RA	<b>088H3111</b>
TWA-A NC (24V), complete with end switch	RA	<b>088H3114</b>
TWA-K NC (240V)	M30x1.5 <sup>(2)</sup>	<b>088H3142</b>
TWA-K NO (240V)	M30x1.5 <sup>(2)</sup>	<b>088H3143</b>
TWA-K NC (24V)	M30x1.5 <sup>(2)</sup>	<b>088H3141</b>
TWA-K NO (24V)	M30x1.5 <sup>(2)</sup>	<b>088H3140</b>

Notes:

(1) When mounted on a 2-port valve, Normally Closed (NC) versions are open when power is applied.

(2) Connection to Heimeier, MNG and Oventrop valves with M30x1.5 connection. Other valves must be verified individually to ensure correct valve closing measurement and valve top geometry.

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# Underfloor Heating Valve FHV-R



- Includes valve enclosure, valve sensor and fascia plate
- Easy to use
- No wiring
- Minimises running cost
- Good performance (self-acting proportional)
- Good value for money
- Ideal for one zone systems

Feature	FHV-R
Code No. for valve and enclosure ( <b>does not include sensor</b> )	<b>003L1000</b>
FJVR sensor (temperature range 10-50°C). Order separately	<b>003L1040</b>
Installation position	Return
Connection sizes, see page 19 for pipe fittings options	G3/4", BSP, male
Integrated air-vent and air-vent key	•
Maximum operating pressure	6 bar
Maximum differential pressure	0.6 bar

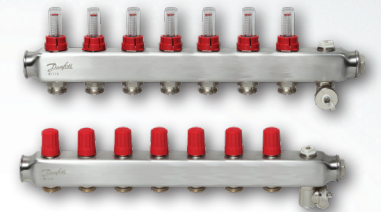
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# Floor Heating Manifold Stainless Steel

- Pre-assembled in sets
- Individual shut-off of each circuit
- Individual flowmeter per circuit
- Allows individual room control of water flow and heat supply
- Return manifold is equipped with integrated pre-setting valves



Description	Type	Code No.
Stainless steel manifold set, 2+2 with flowmeter	SSM-2F	<b>088U0752</b>
Stainless steel manifold set, 3+3 with flowmeter	SSM-3F	<b>088U0753</b>
Stainless steel manifold set, 4+4 with flowmeter	SSM-4F	<b>088U0754</b>
Stainless steel manifold set, 5+5 with flowmeter	SSM-5F	<b>088U0755</b>
Stainless steel manifold set, 6+6 with flowmeter	SSM-6F	<b>088U0756</b>
Stainless steel manifold set, 7+7 with flowmeter	SSM-7F	<b>088U0757</b>
Stainless steel manifold set, 8+8 with flowmeter	SSM-8F	<b>088U0758</b>
Stainless steel manifold set, 9+9 with flowmeter	SSM-9F	<b>088U0759</b>
Stainless steel manifold set, 10+10 with flowmeter	SSM-10F	<b>088U0760</b>
Stainless steel manifold set, 11+11 with flowmeter	SSM-11F	<b>088U0761</b>
Stainless steel manifold set, 12+12 with flowmeter	SSM-12F	<b>088U0762</b>

> [Click to view accessories](#)

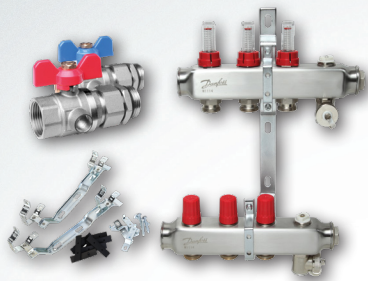
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# Floor Heating Manifold Bundles



Manifold with Flow meter	Bracket	Ball Valves	Fittings (16x2 Alupex)	Code
SSM bundle 2+2	UK	Set	4	<b>088U0652</b>
SSM bundle 3+3	UK	Set	6	<b>088U0653</b>
SSM bundle 4+4	UK	Set	8	<b>088U0654</b>
SSM bundle 5+5	UK	Set	10	<b>088U0655</b>
SSM bundle 6+6	UK	Set	12	<b>088U0656</b>
SSM bundle 7+7	UK	Set	14	<b>088U0657</b>
SSM bundle 8+8	UK	Set	16	<b>088U0658</b>
SSM bundle 9+9	UK	Set	18	<b>088U0659</b>
SSM bundle 10+10	UK	Set	20	<b>088U0660</b>
SSM bundle 11+11	UK	Set	22	<b>088U0661</b>
SSM bundle 12+12	UK	Set	24	<b>088U0662</b>

[> Click to view accessories](#)

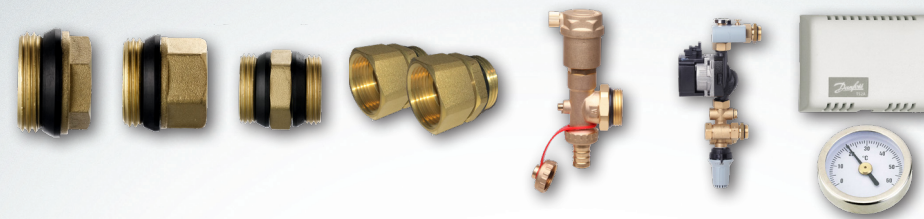
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# Accessories



Accessories	Type	Code No.
End section - automatic airvent and purge valve	FHF-EA	<b>088U0785</b>
End section - manual airvent and purge valve	FHF-EM	<b>088U0786</b>
End caps - set	FHF-E	<b>088U0582</b>
Connection pieces - set	FHF-C	<b>088U0583</b>
Reduction bushes/pieces - set - 1" - 3/4"	FHF-R	<b>088U0584</b>
Mounting brackets - set (for use with FHM-C1)	FHF-MB	<b>088U0585</b>
Mounting brackets (UK) - set	-	<b>088U0596</b>
2 x ball valve 1" with tail piece - for connection to manifold and for blocking of floor heating system	FHF-BV	<b>088U0822</b>
1 x thermometer 0-60°C, Ø35mm - for flow/return temperature measurement	FHF-T	<b>088U0029</b>
T1" Manifold Union Nut - Set	-	<b>088U0820</b>
Pump Shunt, UPM3 15-70	FHM-C1	<b>088U0094</b>

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# Pipe Fittings



Fittings options for SSM Manifold	Description	Code No.
<b>PEX Pipe</b>		
15 x 2.5 - PEX	15x2.5mm fitting for valves with 3/4" external thread	<b>013G4155</b>
16 x 2.0 - PEX	16x2.0mm fitting for valves with 3/4" external thread	<b>013G4156</b>
16 x 1.5 - PEX	16x1.5mm fitting for valves with 3/4" external thread	<b>013G4157</b>
16 x 2.2 - PEX	16x2.2mm fitting for valves with 3/4" external thread	<b>013G4163</b>
17 x 2.0 - PEX	17x2.0mm fitting for valves with 3/4" external thread	<b>013G4162</b>
18 x 2.5 - PEX	18x2.5mm fitting for valves with 3/4" external thread	<b>013G4159</b>
18 x 2.0 - PEX	18x2.0mm fitting for valves with 3/4" external thread	<b>013G4158</b>
20 x 2.5 - PEX	20x2.5mm fitting for valves with 3/4" external thread	<b>013G4161</b>
20 x 2.0 - PEX	20x2.0mm fitting for valves with 3/4" external thread	<b>013G4160</b>
<b>ALUPEX Pipe</b>		
14 x 2.0 - ALUPEX	14x2.0mm fitting for valves with 3/4" external thread	<b>013G4184</b>
16 x 2.0 - ALUPEX	16x2.0mm fitting for valves with 3/4" external thread	<b>013G4186</b>
18 x 2.0 - ALUPEX	18x2.0mm fitting for valves with 3/4" external thread	<b>013G4188</b>
20 x 2.0 - ALUPEX	20x2.0mm fitting for valves with 3/4" external thread	<b>013G4190</b>

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# Electric Floor Heating Mats



Installing an ECmat in any room of your home creates that luxurious feeling a warm floor gives. ECmat can be installed under tiles, stone, laminate, carpet, wood and vinyl flooring giving you the ultimate choice in how you decorate your rooms.

The ECmat is ideal to use on new builds and renovations as the mats are only 3.5mm thick, which limits the raising of the floor to the bare minimum.

We recommend you install the mats on top of insulation boards to get the best out of your heating.

#### **Danfoss Warranty**

We are so confident of the quality of our Danfoss cables that every mat comes with our unique 20-year Danfoss warranty.

This comprehensive warranty includes the cost of installation, the product and the flooring.

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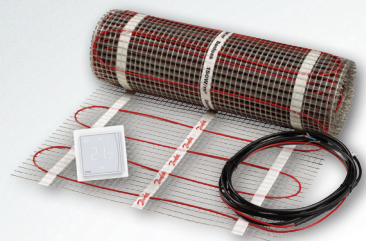
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# ECmat 100W

## For timber based floors



- Operation voltage: 220 - 240V
- Output: 100W/m<sup>2</sup>
- Screen: 100% coverage; alu-foil; 0.5mm<sup>2</sup> tinned copper drain wire
- Cold lead: 4m DTWB, 2 x 1.0mm<sup>2</sup>, earthed
- Outer sheath: PVDF
- Min. installation temperature: -5°C
- Standard compliance: IEC60335-2-96

Code No.	Description	Ω	Category
088L0215	50W, area to be warmed 0.5m <sup>2</sup>	1058	6
088L0216	100W, area to be warmed 1.0m <sup>2</sup>	529	6
088L0217	150W, area to be warmed 1.5m <sup>2</sup>	352	6
088L0218	200W, area to be warmed 2.0m <sup>2</sup>	264	6
088L0219	250W, area to be warmed 2.5m <sup>2</sup>	211	6
088L0220	300W area to be warmed 3.0m <sup>2</sup>	176	6
088L0221	350W, area to be warmed 3.5m <sup>2</sup>	151	6
088L0222	400W, area to be warmed 4.0m <sup>2</sup>	132	6
088L0223	500W, area to be warmed 5.0m <sup>2</sup>	105	6
088L0224	600W, area to be warmed 6.0m <sup>2</sup>	88.1	6
088L0225	700W, area to be warmed 7.0m <sup>2</sup>	75.5	6
088L0226	800W, area to be warmed 8.0m <sup>2</sup>	66.1	6
088L0227	900W, area to be warmed 9.0m <sup>2</sup>	58.7	6
088L0228	1000W, area to be warmed 10.0m <sup>2</sup>	52.4	6
088L0229	1200W, area to be warmed 12.0m <sup>2</sup>	44.1	6

Suitable for laying directly onto wooden sub-floors or wooden overlays.  
To heat larger areas fit a suitably sized supply contactor.  
All Danfoss underfloor heating systems must be RCD protected.

[> Click to view electric heating controls](#)

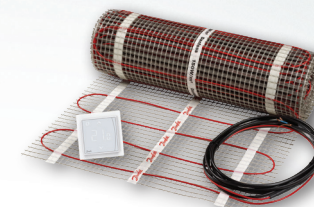
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# ECmat 150W

## For concrete based floors



- Operation voltage: 220 - 240V
- Output: 100W/m<sup>2</sup>
- Screen: 100% coverage; alu-foil; 0.5mm<sup>2</sup> tinned copper drain wire
- Cold lead: 4m DTWB, 2 x 1.0mm<sup>2</sup>, earthed
- Outer sheath: PVDF
- Min. installation temperature: -5°C
- Standard compliance: IEC60335-2-96

Code No.	Description	Ω	Category
088L0200	75W, area to be warmed 0.5m <sup>2</sup>	705	6
088L0201	150W, area to be warmed 1.0m <sup>2</sup>	352	6
088L0202	225W, area to be warmed 1.5m <sup>2</sup>	235	6
088L0203	300W, area to be warmed 2.0m <sup>2</sup>	176	6
088L0204	375W, area to be warmed 2.5m <sup>2</sup>	141	6
088L0205	450W area to be warmed 3.0m <sup>2</sup>	117	6
088L0206	525W, area to be warmed 3.5m <sup>2</sup>	100	6
088L0207	600W, area to be warmed 4.0m <sup>2</sup>	88.1	6
088L0208	750W, area to be warmed 5.0m <sup>2</sup>	70.5	6
088L0209	900W, area to be warmed 6.0m <sup>2</sup>	58.7	6
088L0210	1050W, area to be warmed 7.0m <sup>2</sup>	50.3	6
088L0211	1200W, area to be warmed 8.0m <sup>2</sup>	44.0	6
088L0212	1350W, area to be warmed 9.0m <sup>2</sup>	39.1	6
088L0213	1500W, area to be warmed 10.0m <sup>2</sup>	35.2	6
088L0214	1800W, area to be warmed 12.0m <sup>2</sup>	29.3	6

Suitable for use on concrete and wooden subfloors with thermal/cement backerboards overlay.  
To heat larger areas fit a suitably sized supply contactor.  
All Danfoss underfloor heating systems must be RCD protected.

[> Click to view electric heating controls](#)

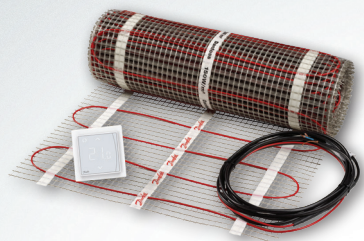
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# ECmat 200W

## For high heat loss areas



- Operation voltage: 220 - 240V
- Output: 200W/m<sup>2</sup>
- Screen: 0.5 mm<sup>2</sup> Cu + 100% Alu-foil with PET
- Cold lead: 3m DTWB, 1.0mm<sup>2</sup>
- Outer sheath: PVDF
- Min. installation temperature: -5°C
- Standard compliance: IEC60335-2-96

Code No.	Description	Ω	Category
088L5400	87W, area to be warmed 0.5m <sup>2</sup>	608	6
088L5405	215W, area to be warmed 1.0m <sup>2</sup>	246	6
088L5410	285W, area to be warmed 1.5m <sup>2</sup>	186	6
088L5415	430W, area to be warmed 2.0m <sup>2</sup>	123	6
088L5420	500W, area to be warmed 2.5m <sup>2</sup>	106	6
088L5425	605W, area to be warmed 3.0m <sup>2</sup>	87.4	6
088L5430	695W, area to be warmed 3.5m <sup>2</sup>	76.1	6
088L5435	845W, area to be warmed 4.0m <sup>2</sup>	62.6	6
088L5440	990W, area to be warmed 5.0m <sup>2</sup>	53.4	6
088L5445	1210W, area to be warmed 6.0m <sup>2</sup>	43.7	6
088L5450	1385W, area to be warmed 7.0m <sup>2</sup>	38.2	6
088L5455	1665W, area to be warmed 8.0m <sup>2</sup>	33.8	6
088L5460	1715W, area to be warmed 9.0m <sup>2</sup>	30.8	6
088L5465	2070W, area to be warmed 10.5m <sup>2</sup>	25.6	6

Suitable for use on concrete sub-floors or wood/concrete with thermal backer board.

Tile/Stone finish only.

To heat larger areas fit a suitably sized supply contractor.

All Danfoss underfloor heating systems must be RCD protected.

[> Click to view electric heating controls](#)

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YEAR  
WARRANTY

- Product
- Installation
- Floor/Surface

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# Electric Floor Heating Controls



Our range of thermostat controls include stylish designs, intuitive controls and the ability to control your heating remotely.

They all have a floor sensor which ensures a precise control of your floor heating system. Keeping it nice and warm without getting too hot or risking damage to the floor construction. The ECtemp intelligent thermostats provide you with the easiest way to save energy and money on electrical heating.

A user-friendly menu navigation makes programming your heating system simple to complete.

ECtemp™ Smart when combined with the ECtemp Smart™ App also allows you to control your electrical floor heating from virtually anywhere via an internet connection. By using the intelligent functionalities featured in the ECtemp Smart, you can save up to 30% on your energy bill.

#### **Danfoss Warranty**

All ECtemp thermostats come with a no-quibble 5 year warranty so you know your heating controls are in safe hands.

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# ECtemp Touch



The ECtemp Touch is the simplest, easiest-to-use controller developed for electric floor heating. It has an intuitive touch screen, the ability to work with other manufacturers' electric floor heating and several cost saving features to make it easy for you to get the best out of it - All with a simple touch.

Code No.	Product	Category
088L0122	ECtemp Touch - Pure White	7

# ECtemp Next Plus



The Danfoss ECtemp Next Plus is an electronic programmable thermostat used for controlling electrical floor heating elements.

The thermostat is designed for fixed installation only and ensures optimal energy savings whilst upholding optimal thermal comfort in the room.

Code No.	Product	Category
088L0121	ECtemp Next Plus - Pure White	2

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# ECtemp Smart with ECtemp Smart App

The ECtemp Smart is a 7-day programmable thermostat with a sleek, stylish design and touchscreen operation. It can be paired with up to 10 mobile devices via the ECtemp Smart™ App - compatible with both iOS and Android devices. Temperature range: 5-35° C.



Code No.	Product	Category
088L1140	ECtemp™ Smart Pure White	7
088L1141	ECtemp™ Smart Polar White	7
088L1143	ECtemp™ Smart Black	7

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