



Installation instruction Danfoss Reflect - EFCI Dry

GB

Technical data:	
Construction	Polystyren with aluminium
U value	3 W/(m ² *K)
Size	50 x 100 cm
Thickness	13 mm
Alu. thickness	0,8 mm
Insulation	12 mm fire retardent EPS
Deformation strength	3670 kg/m ²
Max working temp	80 °C
Box size	10 plates, 5 m ² 4 plates, 2 m ²
Accessories	Sensor casing, flexpipe
Usage of cable	5 meters per plate

General

Read the instructions carefully before commencing the installation. These instructions must be supplemented by the installation instructions for the Danfoss heating cable. The Danfoss heating cable must at all times be in contact with the aluminium plate or aluminium tape. Observe the maximum area effect of 100 Watt/m² in EFCI Dry. EFCI Dry must only be fitted with Danfoss EFTPC-8, EFTPC-10, EFTEC-8 or EFTEC-10 heating cable. Do not use sharp or pointed objects while laying the cable. Observe national regulations and standards for the area. Remember to buy a Danfoss heating cable, a EFIT thermostat and a EFCI Dry mounting kit.

Note:

Do not lay the cable outside the plates, except where covered with aluminium tape.

Connection of the heating cable must be done by an authorised electrician. The cable lines must not cross each other.

Calculating the required number of plates

Measure the room, and calculate the number of square metres. One plate is 0.5 m². The entire room can be covered by EFCI Dry. Alternatively, a 13-mm layer of plaster board can be laid in areas where heating is not required. Make sure the length of the Danfoss heating cable is less than 5 meters x number of plates laid.

Subfloor

EFCI Dry is laid out as a floating floor structure and can be laid on all types of sub floors. The sub floor must be clean, level, firm and stable.

Preparation

Clean the subfloor thoroughly. Lay out a moisture barrier if one is not already present.

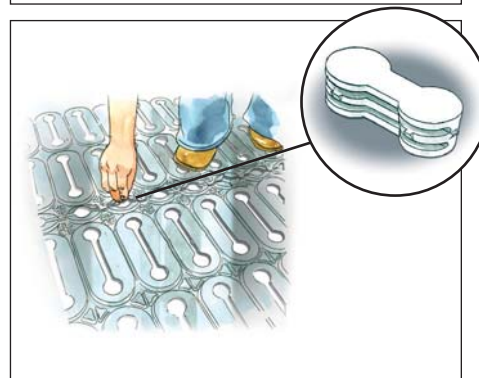
The EFCI dry plates should be laid out so as to cover the entire floor. Ensure the plates are laid in the same direction, and lay them closely together with the grooves aligned to each other.



The plates are easily adapted to any room size, e.g. by use of a jig saw with an aluminium blade. Sharp edges should be smoothed and rounded.

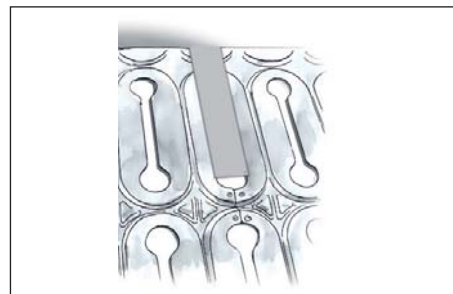


Use the enclosed locks to lock the plates together.
3 at each side and 2 at each end



The thermostat can be placed anywhere in the room. Where the cable exits the wall, use a jig saw to make room in the plate for the cold tail cable connector and the floor sensor. Smooth and round any sharp edges, and pay particular attention to places where the cable is resting on a cut edge.

Apply a piece of aluminium tape to the sub floor and the edges of the plate where the heating cable splice will be laid.



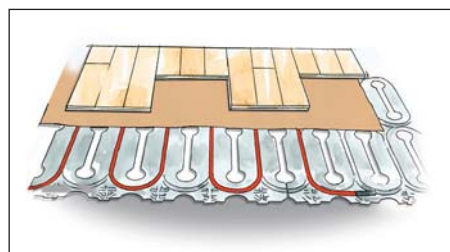
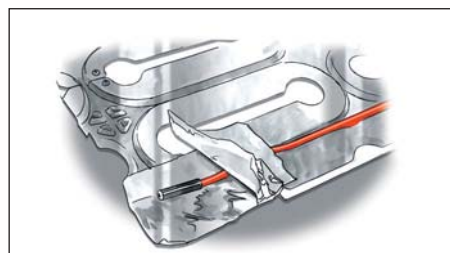
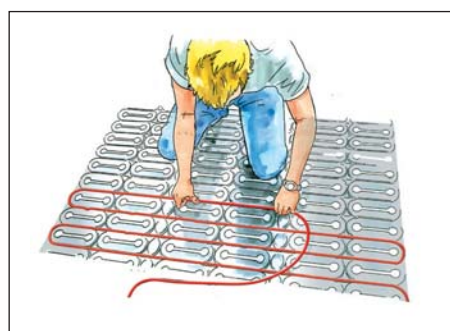
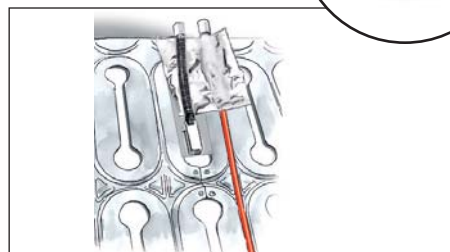
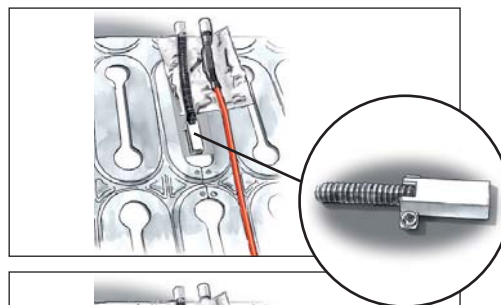
Install the cable and the flex pipe in the wall. The connection of the cable and the thermostat must be carried out by an authorised electrician.

Cover the cold tail cable connector with another layer of aluminium tape, and mount the sensor casing on the floor by either screws or glue and glue it in the end of the flex pipe.

Now lay the cable out over the entire floor. Do not lay the cable outside the plates. Press the cable into the grooves. Do not try to hammer or beat the cable into place, it might cause damage to the cable.

When the entire cable has been laid out, a hole is cut in the plate to make room for the cable end. Saw the plate with e.g. a jig saw with an aluminium blade. Smooth and round any sharp edges. Subsequently, place the cable end between two pieces of aluminium tape with contact to the aluminium plate.

When the cable has been laid out and tested (see instructions for the Danfoss heating cable), lay out a step damping and the wooden flooring.



Accessories

It is strongly recommended to use a EFIT thermostat with a floor sensor to control the floor heating system. The cable must not be connected without thermostat control.

Set the thermostat to ensure the wooden floor surface does not exceed 27°C. Remember to buy one mounting kit per thermostat to be installed.

Mounting kit



The Warranty

You have purchased a Danfoss Heating system, which we are certain will improve your comfort and economy. Danfoss provides complete heating solutions with Danfoss heating cables, EFIT thermostats, EFTM/EFSM heating mats, EFCI Dry heat distribution plates and Danfoss EFCI Fast fitting bands. If, however, contrary to all expectations, a problem should occur with your heating system, we at Danfoss, with manufacturing sites in Denmark, are, as European Union suppliers, subject to general product liability rules, as stated in Directive 85/374/CEE, and all relevant national laws.

Danfoss provides a warranty for Danfoss heating cables, EFTM/EFSM heating mats and EFCI Dry for a 20 year period and all other Danfoss products for a 2 year period against defects in material and production.

The guarantee is granted on conditions that the WARRANTY CERTIFICATE on the overleaf is filled out properly in accordance to instructions and that the defect is inspected by, or presented to, an authorised Danfoss distributor.

The obligation of Danfoss will be to repair or supply a new unit, free of charge to the customer, without secondary charges linked to repairing the unit. In case of defective EFIT thermostats, Danfoss reserves the right to repair the unit free of charge and without unreasonable delay to the customer.

No repairs will be accepted by Danfoss without prior consent from Danfoss.

The Danfoss warranty does not cover installations made by unauthorised electricians, or faults caused by incorrect designs supplied by others, misuse, damage caused by others, or incorrect installation or any subsequent damage, that may occur. If Danfoss is required to inspect or repair any defects caused by any of the above, then all work will be fully chargeable.

The Danfoss warranty is void, if payment of the equipment is in default. At all times, we at Danfoss will respond honestly, efficiently and promptly to all queries and reasonable requests from our customers.

Warranty Certificate

The Danfoss Warranty is granted to:

Name:	Phone:
_____	_____
Address:	Postal code:
_____	_____

Please Observe!

In order to obtain the Danfoss Warranty, the following must be carefully filled in. See other conditions on the overleaf.

Layout contractor:	Lay-out date:
_____	_____
Electrical Installation by:	Installation date:
_____	_____

Mat length:	Watt:
_____	_____

Stock code:

Supplier Stamp:

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