



Installation Manual

 **DREAM HEAT**

Read through this entire manual before starting installation.

- ✦ All electrical connections must be made by a licensed electrician in accordance with national and local codes and standards.
- ✦ Always join multiple heating film lines in parallel **ONLY** (never in series).
- ✦ Always make sure to check the heating film before, during, and after installation of the floor covering.
- ✦ Each thermostat requires a dedicated circuit at the breaker box.
- ✦ Must not be installed in damp or wet areas
- ✦ Do not fold or wrinkle the heating film, walk on it unnecessarily, or drop heavy or sharp objects on it.
- ✦ Never overlap the heating film.
- ✦ Do not install electrical wires or pipes in the floor with the film.
- ✦ Be sure underlayment contains no cellulose.
- ✦ Install film only when room temperature is above freezing.
- ✦ Leave a 6-inch space between film and fireplaces, chimneys, or hot water pipes.
- ✦ Never use any type of insulation material on top of the heating film.
- ✦ Do not install the heating mats directly over a foil backed insulation material.
- ✦ When installing carpet a low tog underlay should be installed followed by a good quality hessian backed carpet.
- ✦ The surface temperature of the heating film should be lower than 60°C
- ✦ Not allowed: overlapping film on a film



MATERIALS & TOOLS



Electric heating film

Dream Heat DH NR-1 240W/m²

Art. Nr - BUD0050



Electric heating film for ceiling

Dream Heat DH NR-2 400W/m²

Art. Nr - BUD0050



Insulation layer from aluminium

Isolation foil 33m x 1,25 x 4cm

Art. Nr - BUD0058



Temperature controller

Thermostats in black or white color

Art. Nr - BUD0051

Model: NJ-3000 white

Art. Nr - BUD0054

Model: NJ-3000 black

Art. Nr - BUD0052

Model: NJ-6000 white

Art. Nr - BUD0053

Model: NJ-6000 black



Power wire in double shield

Double isolation wire 2.5mm x 100m roll

Art. Nr - BUD0060



Connectors for power wire to heating film

Copper connectors x 100pcs in bag

Art. Nr - BUD0055



Electrical insulation tape

Insulation tape 33m x 5cm

Art. Nr - BUD0063



Electric heating film dedicated for wet floors

Heating mat dedicated for wet rooms:

Art. Nr - BUD0055

Model: DH-W 3

Art. Nr - BUD0056

Model: DH-W 3,5

Art. Nr - BUD0057

Model: DH-W 4



Butyl tape for insulation connectors

Butyl tape 14m x 5cm x 2mm

Art. Nr - BUD0062



Isolation foil directly under floor

Isolation foil 4m x 25m x 0,3mm high

Art. Nr - BUD0059



Scissors

for cutting heating film



Crimping press DH-CP 1

Art. Nr - BUD0056



Wire cutter

Crimping press DH-WC 1

FEATURES

-  **1. Heating for Healthy Life & Healing**
Far infrared radiations give vitality to human bodies and minds.
-  **2. Saving Heating expenses**
Save around **30%** of electric power. (Further, individual control is available.)
Easy installation (low labor cost), chief material, no maintenance cost.
-  **3. Eco-Friendly Heating**
No exhaust gas, no smoke, no ash and no noise, keep moisture, etc.
-  **4. Extra benefit**
No space is needed for heating equipment.

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A. Preparing for installation

1) Draw a heating surface with accurate and actual measurements.

- ① Allocate one controller per 13 m² of DREAMHEAT.
- ② Position the thermostat at the handy place nearby.

2) Check the electrical capacity

Check the capacity or consult with Power Company for expanding if needed.

B. Construction work

1) On-site cleaning

Sharp protrusions on the bottom may give damages such as short or leakage of electricity to various materials. So, special attention is required.

2) Water Task

Moisture and water may short of electricity of the floor. So water and frost proofing is required.

3) Thermal insulation

- ① Cut insulation film along the size of the space and put attaching side up to DREAMHEAT.
- ② Between insulation film and bottom, glue or spray adhesive, hot melt adhesive for fixing.
- ③ Tape (OPP) tapes between the sheet and sheet for fixing side by side.

Electric insulation

Tape all horizontal edges and soldered part with insulation tapes

4) Dream heat

① Cutting and allocation

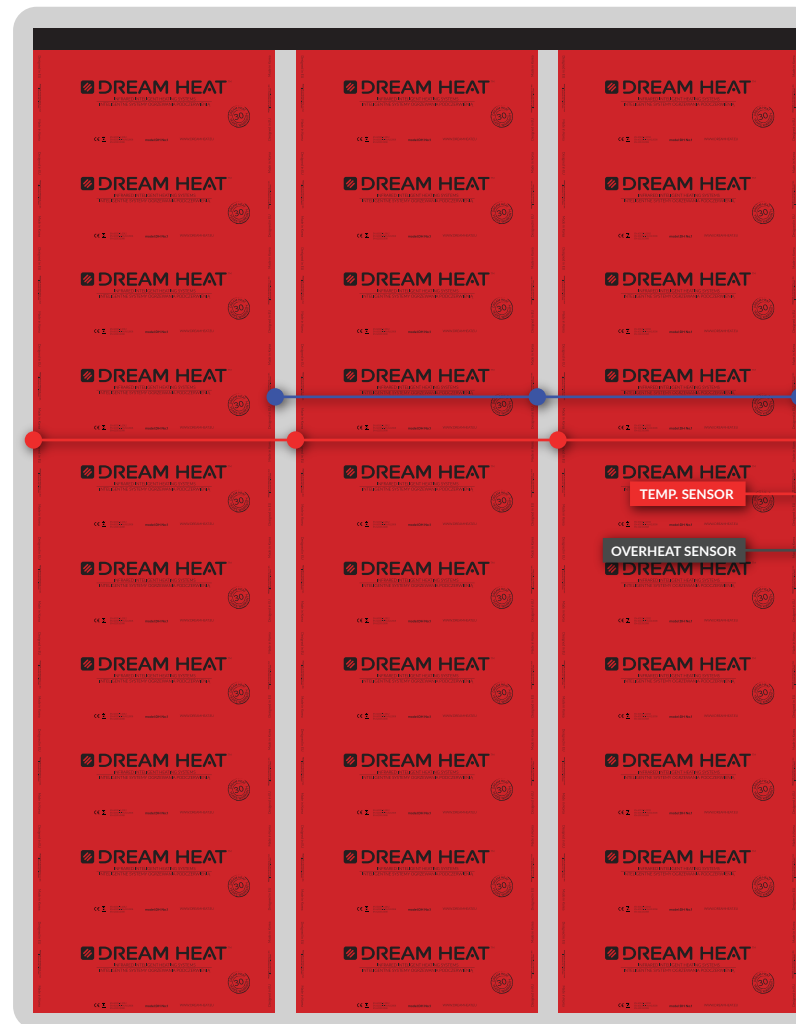
- ② Put Nanoheat sheets 10~15cm from the wall, align sheets with 1cm gap in between.
- ③ The length of single piece, shorter than 8m is recommended.
- ④ If 50cm width is needed, cut along with the cutting line precisely.
- ⑤ Check electric capacity of wall outlet and controller.

9). Finishing

Clean up the site.
Residual may give damages to **DREAMHEAT** and others installed, so clean up after the works.

a. Dry finishing
Cover wood flooring, reinforced flooring or Monolium will be covered directly on **DREAMHEAT** without anybond, etc.

b. Wet finishing
Use the protecting layer like plywood first, to finish flooring work which requires bond on the surface such as pebble flooring or deco-tile flooring



BLOCK DIAGRAM



DREAM HEAT INSTALATION

② Hook up wires



a) Connectors

Prepare and install plugs for the power cable.

! Be careful for copper coil not to be damaged.



d) Insulation

- Cover the place for electrical insulation with the insulation tape.
- For electrical insulation.



b) Wire soldering

Solder DREAMHEAT and power wire for power supplying

! Failure solder



e) Fixing Nanoheat

- Fixing DREAMHEAT and thermal insulation sheet with OPP tapes.
- Align all wires without twisting and fix them on back side of DREAMHEAT

! Arrange power wires and signal cables not to be twisted.



5) Arrange wires and cables

Arrange the power wires and signal cables and tape them onto the backside of DREAMHEAT

! Fix them not to be twisted.



6) Temperature controller

a) Attach sensor cables to DREAMHEAT

- Attach the temp. sensor at the center of heating area.
- Attach the overheat sensor at the center of heating area

! Reserve the 30cm distance between temp. sensor and overheat sensor.



b) hooking -up wires and cables

- IN: Power input from wall outlet.
- OUT: Power out to DREAMHEAT
- Temp. sensor
- Overheat sensor

TEST RUN



a) Turn on the power button.

b) Check the temp. sensor

Using ▲, ▼ button, set 5 degree higher than the temperature you want.

Check if the controller shows **off** and **on** when it go down 2~3 degree.

! When it doesn't work normally, check if the temp. sensor is correctly attached

c) Check heating normally

Set 40 degree of the controller and check every corner and center point if it gets warm normally.

! Check DreamHeat several parts for overheating or not heated. Check wire, plug or controller if there is heated abnormally.

! Do not set over 50 degree for overheat risk