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
  - Isolution 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 2.5mm
  - 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
  - Isolution 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.
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.

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 any bond, 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.
INSTALATION

2 Hook up wires

3 Connectors
Prepare and install plugs for the power cable.
! Be careful for copper coil not to be damaged.

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.

4 Wire soldering
Solder DREAMHEAT and power wire for power supplying
! Failure solder

6) Temperature controller
① 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.

② Turn on the power button.
③ 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

④ 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

⑤ Insulation
   • Cover the place for electrical insulation with the insulation tape.
   • For electrical insulation.

⑥ 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.

⑦ hooking –up wires and cables
   • IN: Power input from wall outlet.
   • OUT: Power out to DREAMHEAT
   • Temp. sensor
   • Overheat sensor