**HOTEL SACHER**

< **DIGITAL SENSOR**
MEASURES BOTH TEMPERATURE
AND MOISTURE LEVELS,
PROVIDES PRECISE FEEDBACK READING
REGARDING SNOW AND ICE CONDITIONS

**SAFETY, COMFORT, CONSERVATION**

**SNOW MELTING SOLUTIONS**

**FOR
CONCRETE,
ASPHALT,
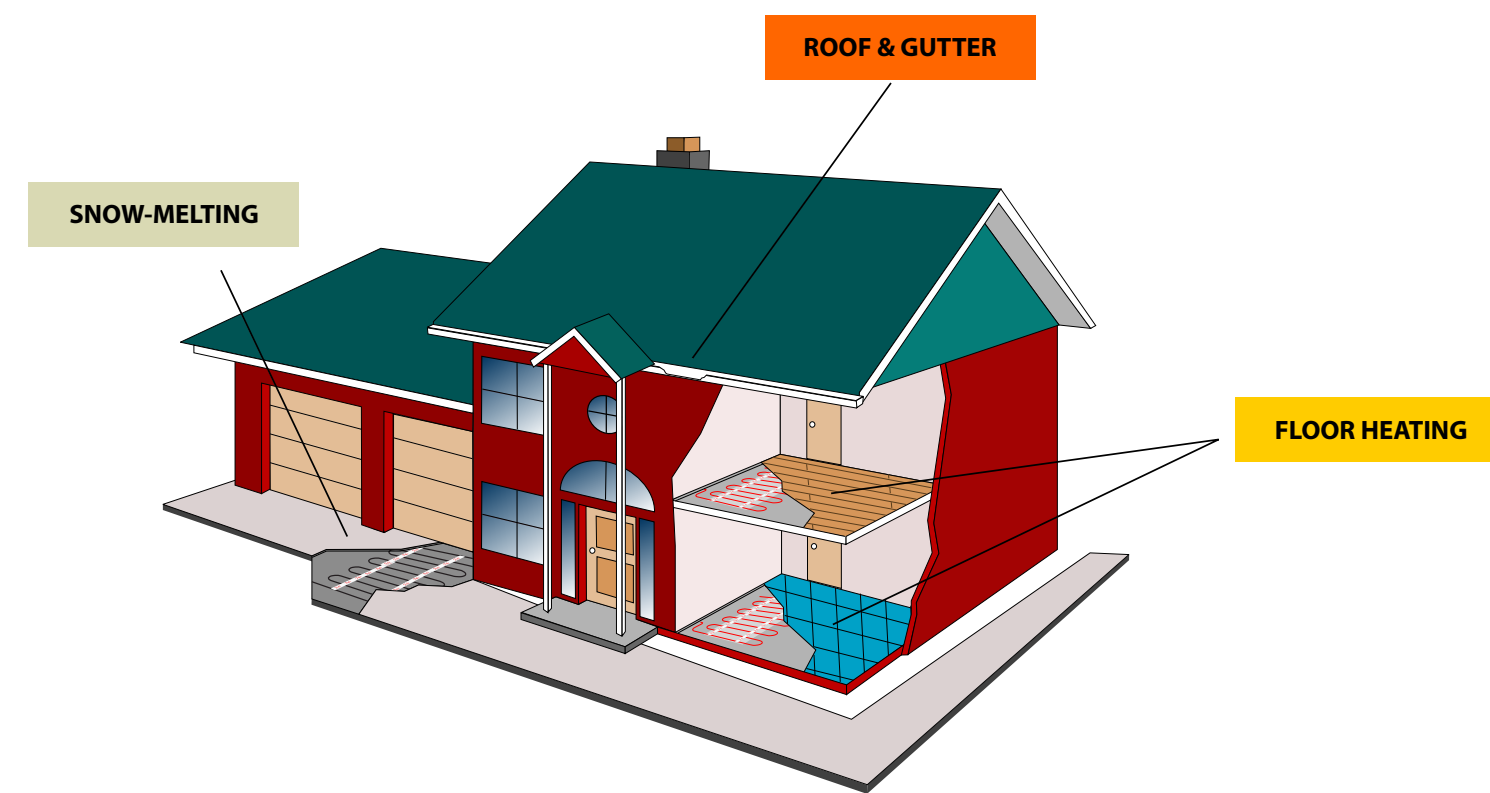AND
PAVING STONES**

# Dual Zone Electric Snow and Ice Melting Systems

## Dual zone features

- **Load prioritization -
  for limited power situations.**
  You can prioritize between zones, eg. if you have limited
  power output, one zone is made ice and snow free before
  focus is put on the other zone.

- **Energy savings**
  The GX 850 lets you divide your area into two zones, eg. a
  North and South side.  The South side will be free of ice
  and snow faster because of the heat from the sun,
  allowing the system to only use power on the North side.

- **Combine different zones**
  The GX 850 can integrate four separate sensors, in two
  zones, keeping your roof and gutters plus your pavement
  free of ice and snow.

## Other features

- The info-button will guide you through the menus and
  settings.

- View the actual temperature and moisture level measured
  by the sensors.

- Adjustable operation mode: Automatic, constant on, and
  constant off.

- Adjustable parameters: Melting temperature, standby
  temperature, moisture sensibility, post heating period.

- The intelligent, digital sensors reduce energy
  consumption and give an optimal performance.  The
  sensors are easy to install and designed for rough weather
  and heavy traffic loads.

- **Fault finding program**
  The GX 850 has a self diagnosing program, which will
  detect system faults and sound an alarm.

- External alarm capabilities

- **RS232 enabled.**
  Connect the GX 850 to a computer when a software
  upgrade is available.

**ROOF & GUTTER**

**SNOW-MELTING**

**FLOOR HEATING**

Walkways
Driveways
Ramps
Parking Lots
Bridges
Landing Pads
Decks/Courtyards
and many other applications...

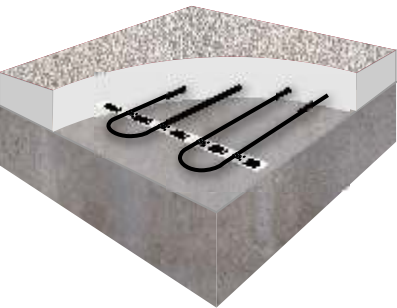**Electric Snow and Ice Melting Systems**

# WINTER WEATHER IS A FACT OF LIFE.

Sudden snow storms and cold snaps can cause serious problems for people, traffic, and buildings. Considerable resources are spent on chemicals and snow removal efforts to keep outdoor areas free from snow and ice.

## DANFOSS GX SYSTEM

Installing a Danfoss GX snow melting system provides a permanent solution to the problems caused by cold weather. The system is designed for a wide variety of surface materials including concrete, asphalt, and paving stones. Improve safety by providing instantaneous relief from snow and ice and increase your bottom line by reducing the cost associated with applying chemicals, owning snow clearing machinery or hiring an outside service.
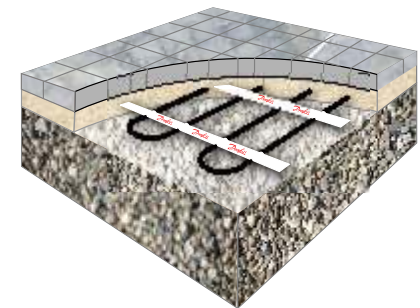
### BENEFITS
>IMPROVED SAFETY
>ENVIRONMENT CONSERVATION
>SURFACE PROTECTION
>CONVENIENCE & COMFORT

## SYSTEM COMPONENTS

- 850 Dual Zone Automatic Controller
- Ground Sensor
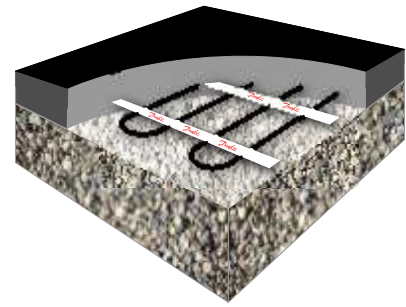- GX Mat

## TYPICAL APPLICATIONS

**CONCRETE INSTALLATION**
Fasten the mat to the rebar or reinforcing mesh. There should be a minimum of 2" and max 4" of concrete covering the heating cables.

**STONEWORK**
Install the heating cable close to the bricks or stone tiles, typically in a layer of sand (1"/2.5cm).

**ASPHALT**
Cover the cables directly with a layer (2"/5cm) of asphalt. Refer to the installation manual for maximum temperatures/ technical data.
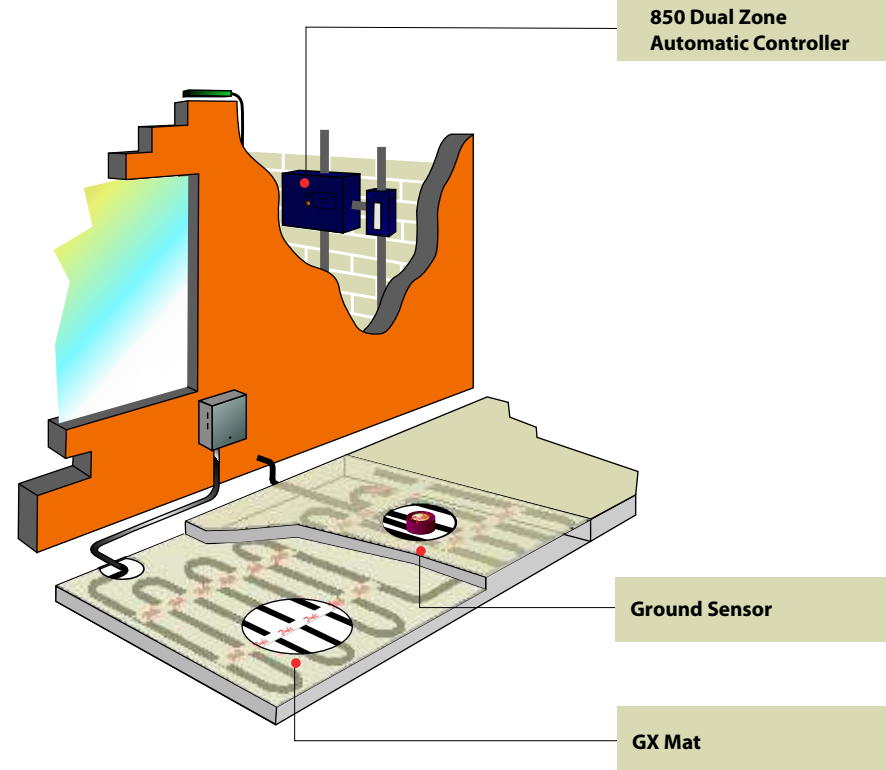
Note: cables can be embedded in sand or concrete (1"/2.5cm), for extra protection.

## WARRANTY

The GX components are made with durable materials that will stand up to the harshest job site conditions. The cable sheathing is made from durable PVC materials and the mat tapes are made with reinforced fiberglass. We are so confident in our products that we offer a 10-year warranty on all our GX mats, and a 2-year warranty on controls and sensors.

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## SIMPLE TO INSTALL

**1** ‹ Prepare the area, insulation below and on the sides of the slab to be heated is recommend

The Danfoss GX mat system was designed with the installer in mind. The GX mat is pre-installed with the correct center-to-center distances on a roll to **reduce installation time by as much as 70%.**

The mat is made with a twin conductor which means only one power lead for the installer to connect. The system emits no EMFs (Electro Magnetic Fields).

**2** Attach mat/cable to the rebars or wire mesh using tie wraps ›

**3** Install ground sensors at opposite ends of the area Pour concrete

**4**

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# Total Control!

‹ Prepare the area, insulation below and on the sides of the slab to be heated is recommend

## Automatic Energy Savings!

‹ The real **strength** of the Danfoss GX snow melting system is in the intelligent GX 850 Dual Zone Automatic Control Panel (ACP). The GX850 ACP is like a mini weather station monitoring your system 24 hours a day. Collecting temperature and relative humidity information from sensors embedded in the surface material, the GX850 ACP is able to accurately sense when to turn the system on and off - the snow never gets a chance to accumulate! The operating cost of a snow-melting system depends greatly on the severity of the winter. Our flexible GX850 ACP decreases your energy consumption by offering adjustable, automatic system control and eliminating costly 'cold-starts' (as compared with manual systems). The savings are automatic!

‹ Install ACP, wire power, mats, and sensors and Stay in Control!

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## Why Danfoss GX?

Total Control, Easy Installation, Energy Efficiency

### GX MAT
**Ease of Installation!**

Voltage:
208V, 240V, 277V, 347V, 480V, 600V

Power Output:
50W/sq.ft. (mats), 12W/ft. (cables

Cable Diameter: 1/4"

- Mat system (reduces installation time)
- Simply roll along rebar or reinforcing mesh
- Cut tapes to turn mat as required
- Also available as loose cable

### GX 850 DUAL ZONE AUTOMATIC CONTROL PANEL (ACP)
**The BEST in the Industry!**

Voltage:
208V, 240V, 277V, 347V, 480V, 600V

Max Load: 60A

Enclosure Type:
NEMA4X

Dimensions (HxWxD):
10.5" x 13.5" x 7.5"

- Automatic control with digital sensors
- Fully adjustable set points
- Provides instant snow melting response
- Conserves energy  **Stay in Control!**

### DS-2B RAIN/SNOW SENSOR CONTROLLER
**Economical Solution!**

- Automatic activation - lower snow melting costs
- Reliable snow and / or rain detection
- Full 30A @ 240VAC control
- Replaceable, inexpensive precipitation sensor head

**Voltage:**
120/240 VAC, Field Selectable.

**Max. Load:**
30A @ 240 VAC, 100,000 operations min. at full load

**Dimensions (H x W x D):**
4¾" x 7" x 2¾" (121 x 178 x 70 mm)

### DIGITAL SENSORS
**Highest Accuracy!**

- Used in conjunction with GX850 automatic controller
- Digital sensors with built-in microprocessor provide precise feedback regarding snow and ice conditions
- Measures both temperature and moisture levels