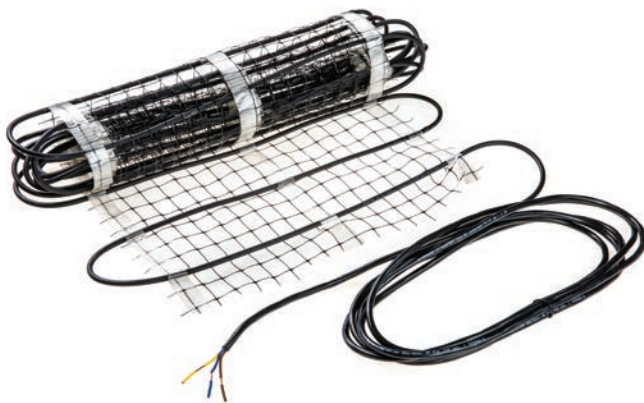


Pre-terminated extreme high quality heating mat for snow- and deicing of surfaces

PRODUCT OVERVIEW



Description

The nVent RAYCHEM WINTERGARD-MAT is a constant output heating mat for simple, fast and effective ramp and accessway heating to prevent snow and ice formation. The roll-out mat configuration allows fast installation whilst ensuring the required power output is installed.

The pre-terminated WINTERGARD-MAT comes complete with a 5 m cold lead, removing the need for on-site termination activities. Simply install the heater over the required area and connect the cold lead to the power junction box and control unit. The WINTERGARD-MAT is particularly suited to track heating of ramps, and driveways, but also emergency escape routes and pedestrian walkways.

PRODUCT SPECIFICATIONS

Design phase

- Simple design
- Pre-defined power output
- Variety of sizes available to meet project requirements

Installation phase

- EASY: Pre-terminated heating mat requires no on-site cold lead or end seal connections
- FAST: Heating mat can simply be rolled out over the required surface prior to the cement pour
- ROBUST: No need to measure cable spacing to ensure a consistent heat output per m² – the mat has a pre-determined fixed heat output of 300 W/m²

The applications

- Perfect for tyre track heating – 600 mm wide heated track
- Pedestrian walkways – Pavement heating to reduce personally injury liability around commercial buildings, hospitals etc.
- Emergency exits – Keeping escape routes clear and safe
- Top surface: Cement screed, pavers stone and smaller asphalt areas

Technical details

| | | |
|-----------------------------------|--|---|
| Voltage | 230 Vac | |
| Nominal power | 300 W/m ² | |
| Maximum exposure temperature | 65°C (in operation) | 105°C rated temperature (non-operation) |
| Short-term temperature resistance | 240°C | For max. 15 Min |
| Minimum install temperature | -5°C | |
| Dimensions | Mat width Mat length | 600 mm Dependent upon mat size ordered |
| Circuit breaker required | Type C RCD: 30 mA | |
| Cable construction | Twin core, constant power output heating cable | |
| Material | Insulation: Outer jacket: | High temperature Cross linkable Polymer insulation Special Cross-linked Polyolefin |
| Color | Outer jacket: Black | |
| TWIN heating conductors | Solid wires | |
| Shielding | Copper drain wire with 100% aluminum tape | |
| Cold lead | Length: 5 m | Wires: 3 x 1,5 mm ² or 3 x 2,5 mm ² |
| Cable diameter | 7 mm | |
| Deformation resistance | >1500 N | |
| Tensile strength | >300 N | |
| Bending radius | 50 mm | |
| Cable spacing | 100 mm | |
| IP class | IP X7 | |
| Certification | CE, UKCA, EAC | IEC 60800:2021 |

APPROVALS

For use in non-hazardous areas

CE: compatible IEC 60800: 2021

Product certification



ORDERING INFORMATION

| Product name | Reference number | Mat size | Surface | Power output @230 V | Cable resistance (Ω) Min/Max | EAN code |
|-------------------------|------------------|--------------|---------------------|---------------------|------------------------------|---------------|
| WINTERGARD-MAT-230V-2M | 1244-022751 | 2 m x 0,6 m | 1,2 m ² | 360 W | 139.6/161.6 | 5414506024074 |
| WINTERGARD-MAT-230V-3M | 1244-022752 | 3 m x 0,6 m | 1,8 m ² | 540 W | 93.1/107.8 | 5414506024081 |
| WINTERGARD-MAT-230V-4M | 1244-022753 | 4 m x 0,6 m | 2,4 m ² | 720 W | 69.8/80.8 | 5414506024098 |
| WINTERGARD-MAT-230V-5M | 1244-022754 | 5 m x 0,6 m | 3,0 m ² | 900 W | 55.8/64.7 | 5414506024104 |
| WINTERGARD-MAT-230V-7M | 1244-022755 | 7 m x 0,6 m | 4,2 m ² | 1260 W | 39.9/46.2 | 5414506024111 |
| WINTERGARD-MAT-230V-10M | 1244-022756 | 10 m x 0,6 m | 6,0 m ² | 1800 W | 27.9/32.3 | 5414506024128 |
| WINTERGARD-MAT-230V-13M | 1244-022757 | 13 m x 0,6 m | 7,8 m ² | 2340 W | 21.5/24.9 | 5414506024135 |
| WINTERGARD-MAT-230V-16M | 1244-022758 | 16 m x 0,6 m | 9,6 m ² | 2880 W | 17.4/20.2 | 5414506024142 |
| WINTERGARD-MAT-230V-21M | 1244-022759 | 21 m x 0,6 m | 12,6 m ² | 3780 W | 13.3/15.4 | 5414506024159 |

RELATED PRODUCTS

nVent RAYCHEM Programmable ramp heating control with ambient temperature, ground temperature, and moisture sensors including nVent RAYCHEM panels should be used, in order to get full nVent RAYCHEM extended system warranty.

| Product name | Reference number | Description |
|-----------------|------------------|--|
| RAYSTAT-M2* | 1244-016962 | DIN rail mounted control for surface snow melting and roof/gutter de-icing |
| VIA-DU-20* | 599514-000 | VIA-DU-20 electronic temperature and moisture sensing controller |
| EM2-SPACER-PL | 1244-005177 | Spacer rail, plastic, 5 m length, grid 25 mm |
| VIA-SPACER-10 M | 198398-000 | Spacer rail, metal, 10 m length, for asphalt |
| VIA-SPACER-25 M | 893869-000 | Spacer rail, metal, 25 m length, for asphalt |

*Controller will be mounted in nVent RAYCHEM panels. Please contact nVent Thermal technical service for further information.

PRE-INSTALLATION GROUND PREPARATION

The heating mat should be installed on a stable subsurface. In suspended structures the substratum may consist of finished slabs, pre-stressed concrete or a suspended structure with poured concrete. The heating mat can be laid on all sub surfaces. In the case of poured concrete, it should be ensured that the surface is smooth and all sharp objects are removed. Ramps on a solid substratum do not require any additional thermal insulation. Appropriate preparations should be made for installing the temperature and moisture sensor.

Recommended split/gravel sizes for sand bed or cement concrete:

Round grain gravel: Ø 8-16 mm

Grit/Broken grain: Ø 4-8 mm

INSTALLATION INSTRUCTION

Complete installation instructions are supplied with the product and are available electronically from nVent. Please request installation instruction reference: RAYCHEM-IM-EU2080-WinterGardMat-ML.

SPECIFICATION GUIDELINE

A product specification guideline is available upon request from nVent. It is also available online at nVent.com/RAYCHEM

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