T2Red

nVent
RAYCHEM

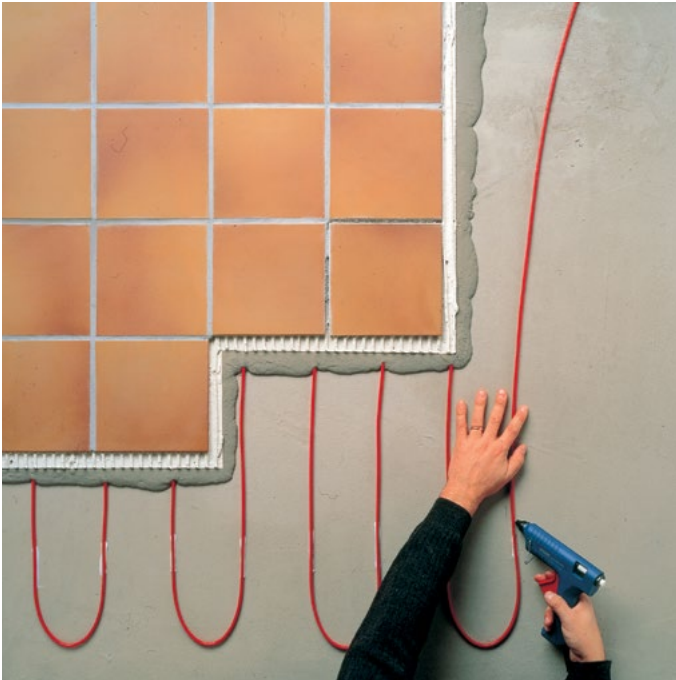## DESCRIPTION

nVent RAYCHEM T2Red is a self-regulating floor heating cable for low profile installations.

Thanks to its self-regulating effect the cable can be applied under any type of floor surface without a risk on overheating.

Especially in commercial rooms, with frequent interior changes, the T2Red heating cable is thinking along with the surface to be warmed and thereby providing a flexible solution to comfortable living.

This intelligent floor heating cable can be applied for improved living comfort in living and bedrooms, children's rooms and dining rooms, but also in bathrooms, kitchens and hall ways.

ADVANTAGES

The design phase

Easy design: one heating cable for all room shapes

Flexible planning and changeable interior design at all times

Ideal for renovation due to the low profile (approximately 8 mm)

Compatible with all stable subfloors e.g. concrete, anhydrite, asphalt, plaster, ceramitic subfloor, wooden subfloors
(with max. heat transfer resistance 0.15 m^2K/W)

Following floorings can be applied:	Tiles, marble, stones	Max. 30 mm thickness	λ-value 1.0 W/mK
	Parquet	Max. 16 mm thickness	λ-value 0.14 W/mK
	Carpet	Max. 10 mm thickness	λ-value 0.09 W/mK

The installation phase

Heating cable is cut to length and therefore flexible to adapt to the room shape

Heating cable can be spliced and crossed without risk of overheating

No cold lead needed, easy connection

The application

Flexible interior design. Due to the self regulating effect, there is no risk on overheating under carpets, furniture, etc.

Automatic self-regulating output depending on environment (more output in cold zones e.g. door, less output in warm zone e.g. sunlight in green house)

Extra low energy consumption with use of thermostat

No measurable electro-magnetic fields due to the heating cable

Long life and maintenance free

TECHNICAL DATA

Nominal power	5 W/m – 15 W/m (depending on floor covering)
Voltage	230 V
Max. Exposure Temperature	65°C
Min. Installation Temperature	+5°C
Max. Circuit Length*	100 m @+20°C start-up
	85 m @+15°C start-up
	75 m @+10°C start-up
	60 m @+5°C start-up
Dimensions	Approx. 8.7 mm x 6.0 mm
Min. Bending Radius	35 mm
Circuit Breaker	C10 A (T)
RCD	30 mA
Construction	PVC-free
Certificates	SEMKO, CE-mark

* The maximum circuit length of T2Red is dependent of the expected minimum start-up temperature.

RELATED NVENT RAYCHEM PRODUCTS

SENZ WIFI

SENZ WIFI is top class WIFI enabled Touchscreen thermostat with the following features:

- Energy Efficient and EcoDesign compliant:
  - Electronic room temperature control with weekly schedule
  - Adaptive start control
  - Open window detection
  - Distance control and monitoring

- Ease of installation:
  - Intuitive setup-wizard

- APP controlled from anywhere:
  - Programming the 3 Economic modes has never been easier than through an APP
  - Switching between program modes can be done from anywhere with the APP
  - Temporary adjustments on the normal schedule like BOOSTING the temperature for desired period of time or overriding the schedule until the next scheduled event
  - Controlling the entire home (up to 32 zones) with the APP
  - Holiday mode is combining the best of both worlds lowering down energy consumption while adding a high level of comfort. Your floor will be back at comfortable temperature right before you enter the home

CE-T2Red	Connection and end seal kit for T2Red heating cables
S-T2Red	Splice kit for interconnecting T2Red heating cables
Reflecta pack	10 pc of Reflecta plates and 6 end plates

PACKAGING AND REFERENCE NUMBER

T2Red self-regulating heating cable on reels (various length min 16 m, max 300 m)

reference number: 948739-000

Needed accessories: CE-T2Red/ETL:

Connection and end seal kit for T2Red self-regulating cable

Reference number: 323608-000

Optional: T2Red pre-terminated
(T2Red incl. end seal, connection kit, thermostat SENZ WIFI)

Product name	Power	Reference number
T2Red Pack 16 m Heating Cable	160 W	1244-022586
T2Red Pack 23 m Heating Cable	245 W	1244-022587
T2Red Pack 30 m Heating Cable	320 W	1244-022588
T2Red Pack 37 m Heating Cable	400 W	1244-022589
T2Red Pack 44 m Heating Cable	480 W	1244-022590
T2Red Pack 58 m Heating Cable	640 W	1244-022591
T2Red Pack 72 m Heating Cable	800 W	1244-022592
T2Red Pack 86 m Heating Cable	960 W	1244-022593
T2Red Pack 100 m Heating Cable	1120 W	1244-022594

SUBFLOOR PREPARATION

The subfloor should be clean, stable and rigid, without cracks or adhesion-reducing substances.

Large cracks in the subfloor should be filled prior to laying the mat. Uneven surfaces will need to be levelled prior to installation. With cement plaster and anhydrite plaster, one should ensure that the substance has dried sufficiently according to the applicable norms. Anhydrite plaster should be smoothened and dust free. With quickly solidifying plaster, one should follow the suppliers instructions.

INSTALLATION INSTRUCTION

The heating cable should not be installed under bath tubs, shower cabins, surface covering furniture, etc.

The heating cable should not be installed where holes will be drilled in the floor.

Applicable norms, rules and data sheets as well as instructions and manuals are to be followed!

For detailed installation instructions refer to INST214.

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