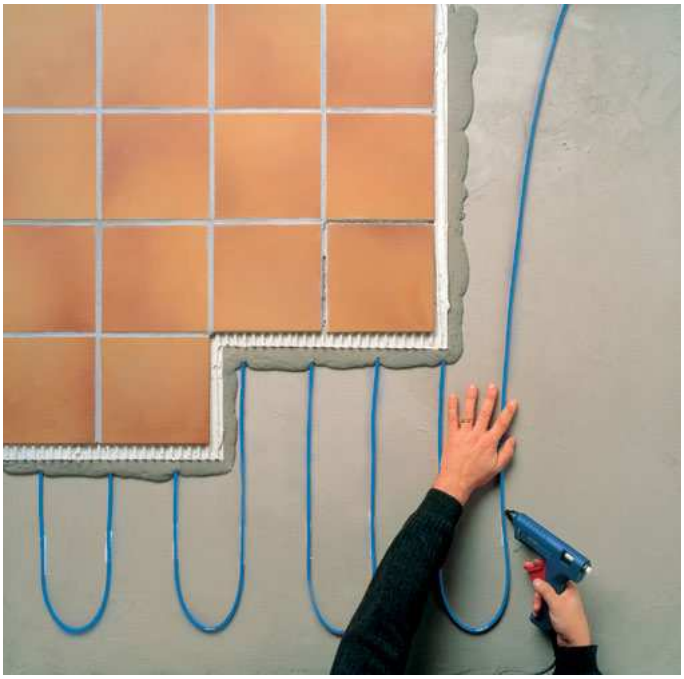
T2Blue - 10 W/m

COMFORT YOU DESERVE



DESCRIPTION

nVent RAYCHEM T2Blue 10 W/m is a floor heating cable with constant power output of 10 W/m. It is a pre-terminated, dual conductor heater with a 2.5 m cold lead attached at one end.

The heating cable should be embedded in a layer of filler (typically 15-30 mm).

T2Blue is the ideal floor heating system for installation in newly constructed buildings or renovation. This floor heating cable is typically applied in new construction applications and building extensions for example in conservatories or cold rooms (refrigeration rooms).

The T2Blue range exists in a variant without thermostat and in an EcoDesign compliant variant containing a programmable electronic timer thermostat. T2Blue comes in a handy installer friendly box containing some glue sticks for easy fixing to the subfloor and a conduit in which to install the sensor.

12 Total care warranty

ADVANTAGES

The design phase

Easy design:

- one cold lead connection due to dual wire cable design
- different outputs per m^2 can be obtained by different heating cable spacing (min spacing is 50 mm)
- flexibility to adapt to all room shapes

Compatible with all stable subfloors e.g. concrete, anhydrite, asphalt, plaster, ceramic underfloor, wooden subfloors.

Following floorings can be applied: Tiles, Marble, Stones with max. 30 mm thickness and min. thermal conductivity of 1,0 W/(mK).

The installation phase

Due to the dual conductor cable T2Blue has only one cold lead connection which enables easy lay-out and installation.

Easy to adapt to special room shapes or obstacles. Spacing can be varied to a minimum of 50 mm.

The application

Extra low energy consumption when used together with the nVent RAYCHEM smart thermostats.

No measurable electro-magnetic fields due to the dual conductor heating cable.

Long life and maintenance free.

TECHNICAL DATA

Nominal power	10 W/m
Voltage	230 Vac
Max. Exposure Temperature	+90°C
Min. Installation Temperature	+5°C
Length of cold lead cable	2.5 m
Dimensions	Approx 5,5 mm diameter
Min. cable spacing	50 mm
Min. bending radius	30 mm
RCD	30 mA
Construction	PVC-free
Certificates	SEMKO, VDE, CE-mark

RELATED NVENT RAYCHEM PRODUCTS

Product name	Part number	Description
SENZ WIFI	1244-017778	WIFI enabled programmable touchscreen thermostat combing app enabled remote control, ease of use and aesthetic design for maximum comfort from your underfloor heating
NRG-DM	1244-015152	Intuitive electronic thermostat with flexible weekly schedule and 1.8" display. Easy to use and to program
Green Leaf	1244-017312	Attractive electronic thermostat with 4 event weekly schedule
U-ACC-PP-01	6012-8949540	Gluestick 10 Pc/pack
U-ACC-PP-02	6012-8949541	Sensortube ∅ 10mm/2,5 m
U-ACC-PP-05	503052-000	Melting glue sticks 72 pcs/1,40 kg/package
U-ACC-MM-10	476660-000	Metal mesh galvanized 10 m
U-ACC-MM-25	726604-000	Metal mesh galvanized 25 m
U-ACC-FH-CW-SP	1244-008869	Repair kit for T2Blue

DESIGN TABLE

T2Blue 10 W/m products are available in heating cable lengths from 10 m till 200 m.

	Output (W)	Length (m)	Heating cable resistance range @ 20°C	Area (m^2) 60 W/m^2	70 W/m^2	80 W/m2	100 W/m^2	125 W/m^2
T2Blue-10-10 m	100	10	503.5 - 583.0 Ω	1,7	1,4	1,2	1,0	0,8
T2Blue-10-15 m	150	15	336.3 - 389.4 Ω	2,5	2,1	1,9	1,5	1,2
T2Blue-10-20 m	200	20	252.7 - 292.6 Ω	3,3	2,9	2,5	2,0	1,6
T2Blue-10-25 m	250	25	201.9 - 233.8 Ω	4,2	3,6	3,1	2,5	2,0
T2Blue-10-30 m	305	30	165.3 - 191.4 Ω	5,1	4,4	3,8	3,0	2,4
T2Blue-10-40 m	400	40	125.4 - 145.2 Ω	6,7	5,7	5,0	4,0	3,2
T2Blue-10-50 m	505	50	99.8 - 115.5 Ω	8,4	7,2	6,3	5,0	4,0
T2Blue-10-60 m	605	60	83.2 - 96.4 Ω	10,1	8,6	7,6	6,0	4,8
T2Blue-10-70 m	700	70	71.8 - 83.2 Ω	11,7	10,0	8,7	7,0	5,6
T2Blue-10-80 m	805	80	62.3 - 72.2 Ω	13,4	11,5	10,0	8,0	6,4
T2Blue-10-90 m	890	90	56.4 - 65.3 Ω	14,8	12,7	11,0	9,0	7,1
T2Blue-10-101 m	1010	101	49.9 - 57.8 Ω	16,8	14,4	12,6	10,0	8,1
T2Blue-10-121 m	1215	121	41.4 - 47.9 Ω	20,2	17,4	15,2	12,0	9,7
T2Blue-10-142 m	1420	142	35.1 - 40.6 Ω	23,7	20,3	17,8	14,2	11,4
T2Blue-10-160 m	1600	160	30.4 - 35.2 Ω	26,7	22,9	20,0	16,0	12,8
T2Blue-10-180 m	1800	180	27.4 - 31.7 Ω	30,0	25,7	22,6	18,0	14,4
T2Blue-10-200 m	2000	200	24.7 - 28.6 Ω	33,3	28,6	25,0	20,0	16,0
Cable spacing (mm) = x = [area (m^2) / length (m)] x 1000				160	140	120	100	80

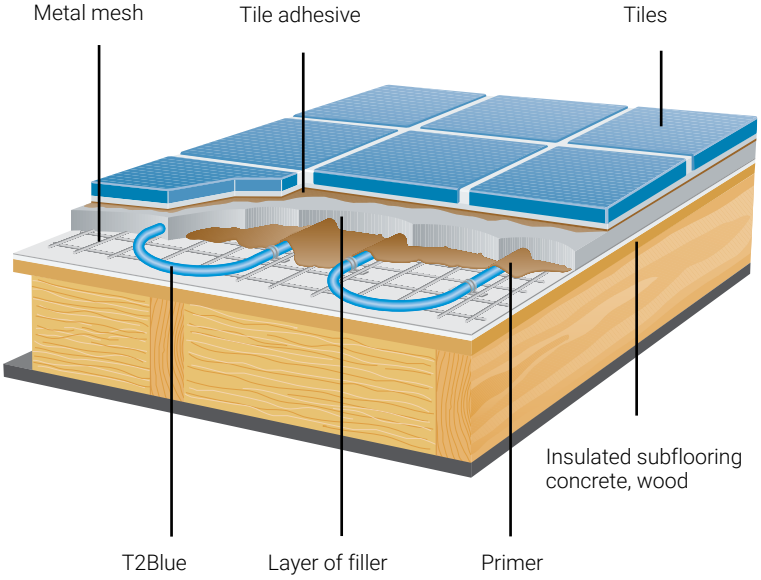
UNDERFLOOR PREPARATION AND INSTALLATION INSTRUCTION

The subfloor should be clean, stable and rigid, without cracks or adhesion-reducing substances. Cracks are to be filled in prior to installation.

Ensure subfloor is level. When using cement plaster and anhydrite plaster, ensure that the floor has dried sufficiently according to the applicable norms. Anhydrite plaster should be smoothened and dust free. With quickly solidifying plaster, please follow the manufacturers instructions.

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.

T2Blue heating cable needs to be installed in a layer of filler (typically 15-30 mm). It should not be installed directly in the tile adhesive. The heating cable should not be embedded in EPS cement screed.



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

For detailed installation instructions reference is INST279.

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