

DESCRIPTION

nVent RAYCHEM T2Blue 20 W/m is a floor heating cable with constant power output of 20 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 screed (50 mm).

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

T2Blue kits can be ordered with or without thermostat. Where the thermostat is included in the kit, T2Blue comes in a handy installer friendly box containing glue sticks for easy fixing to the subfloor and a conduit in which to install the sensor.



ADVANTAGES

The design phase

Easy design:

- one cold lead connection due to dual wire cable design
- different outputs per m² can be obtained by different 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.

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 RAYCHEM smart thermostats

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

Long life and maintenance free

TECHNICAL DATA

Nominal power	20 W/m
Voltage	230 V
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, CE-mark

RELATED NVENT RAYCHEM PRODUCTS

NRG-Temp	NRG-Temp Timer Thermostat with many features including: <ul style="list-style-type: none"> • Standard comfort modes • Two economic programs EcoHome and EcoOffice • Energy saving features, such as the programming heating on time and the adaptive function • Ease of installation features, such as auto detection of sensing mode, auto calibration in room sensing mode and the first warming function
U-ACC-PP-11	Frame adaptor for UK wall boxes (1244-001429)
U-BL-ACC-SP	Splice kit for T2Blue heating cables (6012-8949085)
U-ACC-PP-01	Gluestick 10 Pc/pack (6012-8949540)
U-ACC-PP-02	Sensor tube Ø 10mm/2,5 m (6012-8949541)
U-ACC-PP-05	Melting glue sticks 72 pcs/1,40 kg/package (503052-000)
U-ACC-MM-10	Metal mesh galvanized 10 m (476660-000)
U-ACC-MM-25	Metal mesh galvanized 25 m (726604-000)

DESIGN TABLE

T2Blue 20 W/m heating cables are available in lengths from 11 m till 115 m.

T2Blue 20 W

	Output (W)	Length (m)	Total resistance (Ω)	80 W/m ²	100 W/m ²	125 W/m ²	150 W/m ²
T2Blue-20-11 m	205	11	260 +/- 10%	2,6	2,0	1,6	1,4
T2Blue-20-14 m	285	14	186 +/- 10%	3,6	2,9	2,3	1,9
T2Blue-20-18 m	355	18	150 +/- 10%	4,4	3,6	2,8	2,4
T2Blue-20-21 m	435	21	122 +/- 10%	5,4	4,4	3,5	2,9
T2Blue-20-28 m	575	28	92 +/- 10%	7,2	5,8	4,6	3,8
T2Blue-20-35 m	720	35	74 +/- 10%	9,0	7,2	5,8	4,8
T2Blue-20-43 m	845	43	63 +/- 10%	10,6	8,5	6,8	5,6
T2Blue-20-50 m	980	50	54 +/- 10%	12,3	9,8	7,8	6,5
T2Blue-20-57 m	1130	57	47 +/- 10%	14,1	11,3	9,0	7,5
T2Blue-20-63 m	1270	63	42 +/- 10%	15,9	12,7	10,2	8,5
T2Blue-20-71 m	1435	71	37 +/- 10%	17,9	14,4	11,5	9,6
T2Blue-20-86 m	1710	86	31 +/- 10%	21,4	17,1	13,7	11,4
T2Blue-20-101 m	2015	101	26 +/- 10%	25,2	20,2	16,1	13,4
T2Blue-20-115 m	2300	115	23 +/- 10%	28,8	23,0	18,4	15,3
Cable spacing (mm) = x [area (m²) / length (m²)] x 1000				250	200	160	135

UNDERFLOOR PREPARATION AND INSTALLATION INSTRUCTION

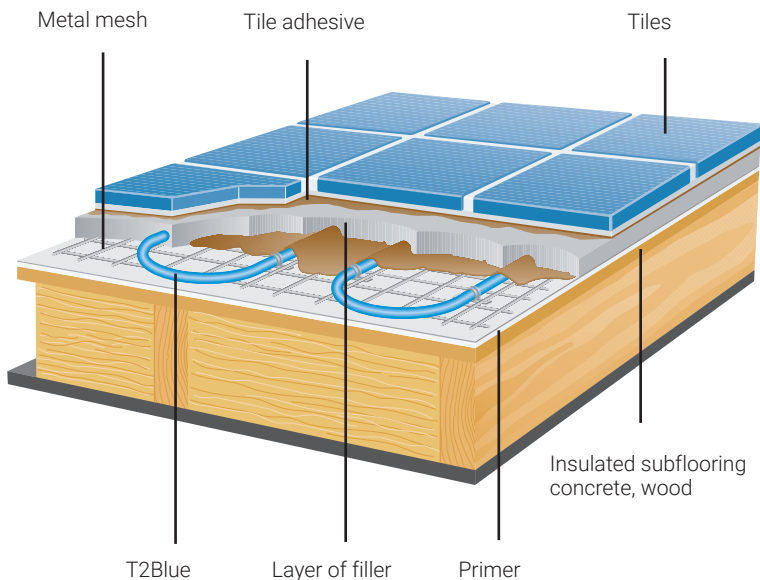
The subfloor should be clean, stable and rigid, without cracks or adhesion-reducing substances. Cracks are to be filled.

Ensure subfloor is level. With cement plaster and anhydrite plaster, ensure that the floor has dried sufficiently according to the applicable norms. Anhydrite plaster should be smoothed 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 screed (50 mm). It should not be installed directly in the tile adhesive.



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

For detailed installation instructions reference is INST-279.

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