



Tyco Thermal Controls offers a 15-year limited warranty against manufacturing defects. For complete warranty details, visit www.raychemquicknet.com.

Floor heating system

Raychem QuickNet is an electric floor heating system for installation under the following surfaces:

- Ceramic or porcelain tile
- Granite
- Marble (except cultured marble)
- Natural stone
- Laminate* wood flooring (floating only)
- Engineered* wood flooring (floating or gluedown)

*For laminate and engineered wood flooring, please refer to the wood manufacturer's recommendations to determine which types are approved for use with floor heating systems and any specific temperature limit set points.

The QuickNet system provides targeted comfort heating in bathrooms, kitchens, entryways and other living areas. QuickNet's compatibility with all standard sub-flooring materials, and its low 3/16 inch (3 mm) profile, make it ideal for renovation projects.

The QuickNet floor heating system includes a blue heating cable woven into an adhesive-backed red fiberglass mesh that allows for simple roll-out installation without worrying about heating cable spacing.

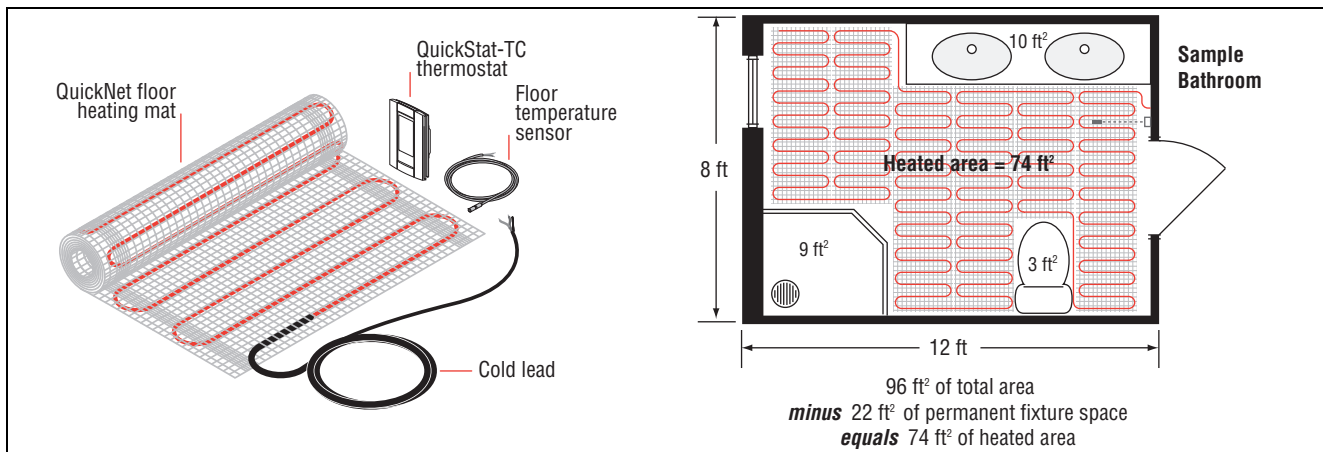
The floor heating mats are pre-terminated for use with 120 V, 208 V, and 240 V and are available in various lengths of 20-inch widths.

The QuickNet mats emit no measurable electromagnetic fields due to the shielded dual conductor design. This dual conductor

cable requires only one cold lead connection making it easy to layout and install. The cold lead is a black non-heating cord that runs in the wall and connects the system to the thermostat.

The QuickStat-TC thermostat includes built-in GFCI protection. It's adaptive function automatically switches the system on to ensure a comfortable floor temperature when you want it. Depending upon the specifics of your installation, the QuickNet floor heating system can maintain floor temperatures up to 85°F or more.

Various sizes of floor heating mats are designed to fit the heated area of any floor. The heated area is the area of the floor where there are no permanent fixtures or furniture such as showers, toilets, vanities or cabinets.



Kit Contents

- 1 QuickNet floor heating mat (with 10-foot cold lead)
- 1 QuickStat-TC thermostat*
- 1 Floor temperature sensor (15-foot length)*
- Installation Instructions

*240 V Extension Kits are available to add on to 240 V QuickNet to accommodate floors over 100 ft². The Extension Kits do not include a thermostat or floor sensor. Up to 200 ft² of 240 V product may be used with one thermostat.

Approvals



Mat Specifications

Operating voltage	120 V, 208 V, and 240 V
Power output	12 W/ft ² (130 W/m ²) ±10% at 120 V or 240 V 9 W/ft ² (97 W/m ²) ± 10% at 208 V
Minimum bending radius	1.25 in (30 mm)
Minimum cable spacing	3 in (80 mm)
Maximum ambient temperature	85°F (30°C)
Minimum installation temperature	40°F (5°C)
Heating cable	2-wire, grounded, fluoropolymer insulating jackets
Cold lead	2-wire 16 AWG plus ground braid; 10 ft (3 m) length

Thermostat Specifications

Functions	On/Off control, digital display, 7-day programmable, Class A, 5 mA GFCI
Supply voltage	120 V, 208 V, 240 V, 60 Hz
Maximum switching current	15 A
Ambient setpoint range (A/AF mode)	40 to 86°F (5 to 30°C)
Floor setpoint range (F mode)	40 to 104°F (5 to 40°C)
Floor limit setpoint range (AF mode)	40 to 104°F (5 to 40°C)
Floor temperature sensor	2-wire, 15-foot lead wire

Ordering Details

Select the QuickNet floor heating mat that is no larger than the heated area. For example, if your heated area is 74 ft², select the 70 ft² mat.

For heated areas greater than 100 ft², select a 240 V QuickNet product and an Extension Kit. Up to 200 ft² of 240 V product may be used with one thermostat.

For heated areas greater than 200 ft², contact Tyco Thermal Controls for design assistance.

Available QuickNet Heating Mat Sizes

Catalog number	Heated area ft ² (m ²)		Mat dimensions	Power output (W)			Current (A)	Resistance (Ohms)
				120 V	208 V	240 V		
120 V QuickNet Standard Kit (with thermostat)								
QUICKNET-010-1	10	(0.9)	20 in x 6.2 ft	120			1	120
QUICKNET-020-1	20	(1.9)	20 in x 12.1 ft	240			2	60
QUICKNET-030-1	30	(2.8)	20 in x 18.4 ft	360			3	40
QUICKNET-040-1	40	(3.7)	20 in x 24.3 ft	480			4	30
QUICKNET-050-1	50	(4.6)	20 in x 30.5 ft	600			5	24
QUICKNET-060-1	60	(5.6)	20 in x 36.4 ft	720			6	20
QUICKNET-070-1	70	(6.5)	20 in x 42.7 ft	840			7	17
QUICKNET-080-1	80	(7.4)	20 in x 48.9 ft	960			8	15
QUICKNET-090-1	90	(8.4)	20 in x 55.0 ft	1080			9	13
QUICKNET-100-1	100	(9.3)	20 in x 61.0 ft	1200			10	12
208 V or 240 V QuickNet Standard Kit (with thermostat)								
QUICKNET-050-2	50	(4.6)	20 in x 30.5 ft		450	600	2.5	96
QUICKNET-060-2	60	(5.6)	20 in x 36.4 ft		540	720	3	80
QUICKNET-080-2	80	(7.4)	20 in x 48.9 ft		720	960	4	60
QUICKNET-100-2	100	(9.3)	20 in x 61.0 ft		900	1200	5	48
208 V or 240 V Extension Kit (without thermostat)								
QUICKNET-050X-2	50	(4.6)	20 in x 30.5 ft		450	600	2.5	96
QUICKNET-060X-2	60	(5.6)	20 in x 36.4 ft		540	720	3	80
QUICKNET-080X-2	80	(7.4)	20 in x 48.9 ft		720	960	4	60
QUICKNET-100X-2	100	(9.3)	20 in x 61.0 ft		900	1200	5	48

Accessories	Catalog number	Description
Repair Kit	QuickNet-RK	The QuickNet-RK repair kit is for repairing QuickNet heating cable that is damaged during the floor heating system installation. The kit incorporates solder sleeves, jumper wires, and heat-shrinkable tubing, which make for a reliable and straight-forward repair.
QuickNet-Check	QUICKNET-CHECK	The QuickNet-Check monitor is used to verify the continuity of the QuickNet heating cable and the integrity of its outer jacket during the installation process. The monitor connects to the cold leads of the cable and, if the heating cable is damaged, the alarm on the monitor will sound. The monitor can also be re-used for subsequent installations and to help troubleshoot any problems that may arise.

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