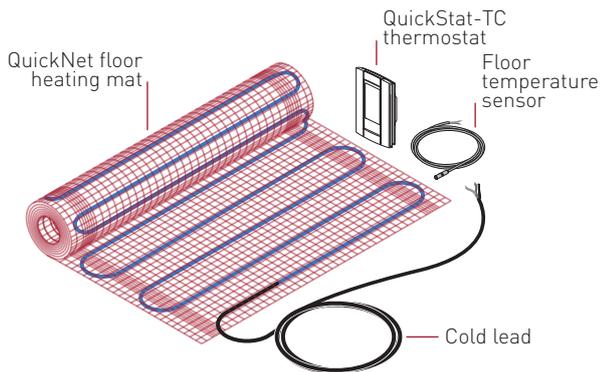


# **Raychem** QUICKNET FLOOR HEATING SYSTEM



## PRODUCT OVERVIEW

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 comfort heating in bathrooms, showers, 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 attached to 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 mat. The cold lead is a black non-heating cord that runs in the wall and connects the heating mat 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 tubs, toilets, vanities or cabinets.

# QUICKNET

## KIT CONTENTS

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

## APPROVALS

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## MAT SPECIFICATIONS

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Operating voltage	120 V, 208 V, and 240 V
Power output	12 W/ft <sup>2</sup> (130 W/m <sup>2</sup> ) ±10% at 120 V or 240 V 9 W/ft <sup>2</sup> (97 W/m <sup>2</sup> ) ± 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 jacket
Cold lead	2-wire 16 AWG plus ground braid; 10 ft (3 m) length

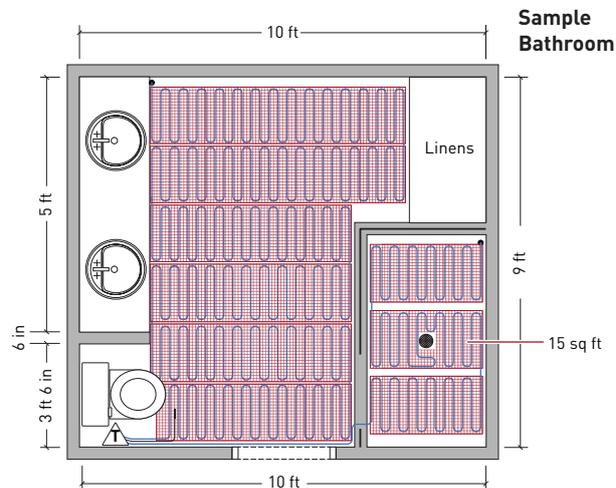
## THERMOSTAT SPECIFICATIONS

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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. The heated area is the area of the floor that does not include permanent fixtures such as cabinets, toilets, sinks or tubs. The selected mat can be configured on the jobsite to fit the shape of the area to be heated.



For example:

If your bathroom is 9 ft x 10 ft	=	90 sq ft
minus the cabinet area	-	10 sq ft
minus the toilet space	-	6 sq ft
minus the linen closet	-	8 sq ft
minus the shower area	-	15 sq ft*
Total area to be heated	=	51 sq ft

### Solution:

Choose the 50 sq ft QUICKNET (QuickNet-050-1).

\* If the shower area is to be heated, select a 15 sq ft QUICKNET (QuickNet-015X-1) also.

**Note:** Extension Kits are available to accommodate larger heated areas. Unlike Standard Kits, extension kits do not include the QuickStat-TC thermostat or floor sensor. The maximum installation area is 140 ft<sup>2</sup> at 120 V and 280 ft<sup>2</sup> at 240 V.

For heated areas greater than 280 ft<sup>2</sup>, contact Pentair Thermal Management for design assistance.

# QUICKNET

Catalog number	Heated area		Mat dimensions	Power Output (W)			Current (A)	Resistance (Ohms)
	ft <sup>2</sup>	m <sup>2</sup>		120 V	208 V	240 V		
<b>120 V QuickNet Standard Kit (with thermostat)</b>								
QUICKNET-010-1	10	0.9	20 in x 6.2 ft	120			1	120
QUICKNET-015-1	15	1.4	20 in x 9.2 ft	180			1.5	80
QUICKNET-020-1	20	1.9	20 in x 12.1 ft	240			2	60
QUICKNET-025-1	25	2.3	20 in x 15.1 ft	300			2.5	48
QUICKNET-030-1	30	2.8	20 in x 18.4 ft	360			3	40
QUICKNET-035-1	35	3.3	20 in x 21.3 ft	420			3.5	35
QUICKNET-040-1	40	3.7	20 in x 24.3 ft	480			4	30
QUICKNET-045-1	45	4.2	20 in x 27.5 ft	540			4.5	27
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 ft	1080			9	13
QUICKNET-100-1	100	9.3	20 in x 61 ft	1200			10	12
<b>120 V Extension Kit (without thermostat)</b>								
QUICKNET-010X-1	10	0.9	20 in x 6.2 ft	120			1	120
QUICKNET-015X-1	15	1.4	20 in x 9.2 ft	180			1.5	80
QUICKNET-020X-1	20	1.9	20 in x 12.1 ft	240			2	60
QUICKNET-025X-1	25	2.3	20 in x 15.1 ft	300			2.5	48
QUICKNET-030X-1	30	2.8	20 in x 18.4 ft	360			3	40
QUICKNET-035X-1	35	3.3	20 in x 21.3 ft	420			3.5	35
QUICKNET-040X-1	40	3.7	20 in x 24.3 ft	480			4	30
QUICKNET-045X-1	45	4.2	20 in x 27.5 ft	540			4.5	27
QUICKNET-050X-1	50	4.6	20 in x 30.5 ft	600			5	24
QUICKNET-060X-1	60	5.6	20 in x 36.4 ft	720			6	20
QUICKNET-070X-1	70	6.5	20 in x 42.7 ft	840			7	17
QUICKNET-080X-1	80	7.4	20 in x 48.9 ft	960			8	15
QUICKNET-090X-1	90	8.4	20 in x 55 ft	1080			9	13
QUICKNET-100X-1	100	9.3	20 in x 61 ft	1200			10	12
<b>208 V or 240 V QuickNet Standard Kit (with thermostat)</b>								
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 ft		900	1200	5	48
<b>208 V or 240 V Extension Kit (without thermostat)</b>								
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 ft		900	1200	5	48

## ACCESSORIES

	Catalog number	Description
<b>Repair Kit</b>	QuickNet-RK	The QuickNet-RK repair kit is for repairing damaged QuickNet heating cable. The kit incorporates SolderSleeve terminations, jumper wires, and heat-shrinkable tubing.
<b>QuickNet-Check</b>	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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