

CONNECT AND PROTECT

Floor Heating Catalog 2020

Electric Floor Heating Systems



About this catalog

This document is for tile and electrical contractors who install or are interested in installing nVent NUHEAT Electric Floor Heating Systems.

This catalog is an excellent resource for installation techniques and for learning how to convey the benefits of electric floor heating to homeowners. It also provides guidance on how to choose the best floor heating system for a particular project and explains how you can grow your business as a contractor installing nVent NUHEAT Floor Heating Systems.

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Exceed your customers' expectations – Add warmth to any floor

As a flooring or electrical contractor, if you are on site installing a new floor or completing electrical work, now is the ideal time to add floor heating to your customer's home

Exceed your customers' expectations! Add warmth to their new floor. They will love the added comfort that nVent NUHEAT brings to their home.



WHY NVENT NUHEAT FOR HOMEOWNERS?

Comfort is everything, especially in your home. With nVent NUHEAT Electric Floor Heating Systems, you can offer the comfort of a warm floor that is maintenance-free for your customers. nVent NUHEAT Electric Floor Heating Systems are ideal for both new construction or renovation projects and come with a long list of benefits for homeowners...

1. Improved Comfort & Safety

- Even heat distribution throughout the living space, not concentrated near vents, radiators or the ceiling
- · Improves indoor air quality by...
 - Facilitating the choice of low VOC surfaces (tile, slate, terrazzo, concrete) that otherwise may be perceived as cold
 - Establishing surface temperatures that prevent growth of mold, bacteria, viruses, and dust mites
 - Not circulating allergens or drying the air like forced air systems
- Is silent, invisible, and takes up no living space unlike baseboards and wall-mounted radiators
 - Furniture can be placed directly against walls
 - Eliminates unsightly heating equipment with risk of trip and fall injuries

2. Peace of Mind

- · Maintenance-free and backed by the industry's best warranties, especially when installed by a nVent NUHEAT Certified PRO
- Certified PRO installers can offer the 25-Year Total Care Warranty which covers the entire installation including floor coverings, labor, and repairs
- nVent NUHEAT warranties are not pro-rated, protecting the owner's coverage value over time
- nVent NUHEAT has been manufacturing premium quality Electric Floor Heating Systems since 1989

3. Energy Efficiency

- Offers enhanced comfort at lower ambient temperature
- Doesn't waste energy heating unoccupied space (ceilings & vents)
- The quick warm-up time of nVent NUHEAT Systems enables "zone heating" heating only the areas in use
- The nVent NUHEAT Signature WiFi thermostat allows you to control and monitor energy use from anywhere

4. Affordability

• nVent NUHEAT Floor Heating Systems add luxury and value to any home for a fraction of other renovation or building costs

Why nVent NUHEAT for Contractors?

Time is money! nVent NUHEAT has focused on supporting professional installers since the beginning and our systems offer several benefits for flooring and electrical contractors...



1. Profitability

- nVent NUHEAT Electric Floor Heating Systems are typically a small portion of building and renovation cost but they provide lasting, tangible benefit (high perceived value) for clients
- nVent NUHEAT offers premium quality and world-class support, meaning you spend more time installing and less time trouble-shooting

2. Expertise

- Our team of experts is here to help before, during, and after the installation; over the phone; and even on the job site
- The nVent NUHEAT Customer Care Team is available 5 days a week via phone, email, and instant online chat, giving you the support you need in the field

3. Easy Installation

- nVent NUHEAT Systems install quickly and reduce site prep time, adding little additional labor to typical jobs such as bathroom or kitchen renovations
- Mats install quicker than any other system available and require little-to-no site prep, reducing time on-site
- The nVent NUHEAT product line encompasses all major types of electric floor heating systems, allowing contractors to choose the right system for the job and never having to worry about lesser quality on our less expensive solutions
- nVent NUHEAT Floor Heating Systems work with the widest variety of complimentary products and don't require use of certain products to receive complete warranty coverage
- nVent NUHEAT warranties do not require excessive testing or the use of specific mortars or other products for installation, allowing the contractor to decide what's best for the job

4. Quality

• nVent NUHEAT has set the industry benchmark for quality & features since 1989, giving contractors a product line they can be proud to install and recommend

5. nVent NUHEAT Certified PRO Program

- Certified PRO installers (CPROs) have exclusive rights to offer the 25-Year Total Care Warranty, covering the complete installation, including floor coverings, labor, and repairs
- CPROs get listed on nuheat.com under "Find An Installer", benefitting the heavy web traffic on Nuheat.com
- · CPROs gain access to exclusive offers and loyalty benefits

Find the Floor Heating You Need

THE RIGHT SYSTEM FOR EVERY APPLICATION

	Custom Mats	Standard Mats	Cable	Cable & Membrane	Mesh
	The thinnest custom-built electric floor heating mat	The thinnest pre-built electric floor heating mat	The robust floor heating cable solution	The integrated electric floor heating and uncoupling solution	The self-adhesive electric floor heating solution
Ideal Use	Installations where shape of heated area is complex (features angles, curves, or multiple adjacent areas) Low product profile and ease of installation are most important	Square and rectangular shaped areas Low product profile and ease of installation are most important	Installations of all shapes (simple to complex) where on-site flexibility is most important	Tile installations of all shapes (simple to complex) where there is concern of subfloor movement and a risk of tiles cracking	Square and rectangular shaped areas where on-site flexibility is most important
Suitable floor surfaces	Tile, stone, laminate, engineered wood, luxury vinyl flooring	Tile, stone, laminate, engineered wood, luxury vinyl flooring	Tile, stone, laminate, engineered wood, luxury vinyl flooring	Tile and stone	Tile, stone, laminate, engineered wood, luxury vinyl flooring
Power Output	12 or 15 W/ft ²	12 W/ft ²	12 or 15 W/ft²	10, 12 or 15 W/ft ²	12 W/ft²
Sizes	Up to 200 ft ² for a single mat	+70 sizes up to 200 ft²	33 kit sizes 120 V - single kits (14) up to 120 ft ² 240 V - single kits (19) up to 240 ft ²	Membrane roll sizes Small - 54 ft² / Large - 161 ft² Cable 33 kit sizes 120 V - single kits (14) up to 120 ft² 240 V - single kits (19) up to 240 ft²	32 kit sizes 120 V - single kits (13) up to 120 ft² 240 V - single kits (19) up to 240 ft²
Floor Shape	Custom built to fit exact shape of the room	Fixed shape (rectangular or square)	Adjustable on site	Adjustable on site	Adjustable on site
Installation Method	Thinset mortar	Thinset mortar	Secure cable guides on subfloor and affix cable to cable guides	Thinset mortar for Membrane then install Cable	Apply adhesive mesh on subfloor and secure using nails, staples, or hot glue
Self-Leveling Concrete	Not needed	Not needed	Recommended	Not needed	Recommended
Thickness	1/8 in	1/8 in	3/16 in	7/32 in	3/16 in
Uncoupling	No	No	No	Yes	No
Availability	Manufactured in 3 days	Stock	Stock	Stock	Stock

¹ All nVent NUHEAT products are backed by a 25-Year Product Warranty. An additional Total Care Warranty can also be applied if a product is installed by a nVent NUHEAT Certified PRO installer. See page 18 for details.

Standard Mats

THE THINNEST PRE-BUILT ELECTRIC FLOOR HEATING MAT





FAST FACTS

- 150 ft² can be installed on a single 120 V circuit
- 300 ft² can be installed on a single 240 V circuit

Material	Consist of a single-conductor tinned copper braided heating wire sandwiched in a pre-configured pattern between durable, two porous layers of fabric
Operating Voltage	120 V, 208 V, and 240 V
Power Output	12 W/ft² (standard mats are only 12 W/ft²)
Maximum Continuous Exposure Temperature	194°F (90°C)
Heating Cable	Single wire with ground braid outer layer
Cold Lead	2-wire, 18 AWG plus ground braid layer; 10 ft (3 m) length

BENEFITS

Easy to install. Standard Mats are pre-built and ready to install right out of the box. The Standard Mat is simply adhered to the subfloor using thinset and flooring can be immediately installed on top.

Error-free. Standard Mats eliminate the need to calculate and experiment with wire spacing during the installation. Consistent wire spacing and heat coverage is guaranteed.

Reduces installation time. Standard Mats shorten the installation process compared to cable and mesh systems because it eliminates the need to manipulate the heating product on site.

Does not raise floor height. Standard Mats guarantee minimal floor height increase. At 1/8 in thick, the ultra low profile of this product reduces the build up on the floor which makes transitions possible without the use of transition strips.

Comprehensive selection of sizes to choose from. Standard Mats are available in over 60 standard sizes in both 120 V & 240 V which provide optimal floor heating coverage in most standard areas.

Available immediately. Find a local distributor near you at http://www.nuheat.com/where-to-buy

HOW TO INSTALL

- Step 1: Spread modified thinset onto subfloor using minimum 1/4 in x 1/4 in square notched trowel.
- Step 2: Place Standard Mat onto fresh thinset, press firmly to create 100% contact between Standard Mat, thinset and subfloor.
- Step 3: Secure floor sensor probe between heating wires.
- Step 4: Apply a thin layer of thinset and install tile/stone flooring as per manufacturer's instructions.

Standard Mats

SELECT STANDARD MAT FOR YOUR PROJECT

STANDARD MATS (120 V)

STANDARD MATS (240 V)

Strucket	ТҮРЕ	DIMENSIONS (INCHES)	онмѕ	AMPS	WATTS	MODEL NUMBER	ТҮРЕ	DIMENSIONS (INCHES)	онмѕ	AMPS	WATTS	MODEL NUMBER
3.5 ti series	Shower Mat*	32×32	171	0.7	84		5 ft series	· , , , , , , , , , , , , , , , , , , ,	320	0.8	180	
Marker M	3.5 ft series						011001100					
40x40 108												
Harder H												
Miscries		40 x 48	90	1.3	160	F1012	6 ft series					
May 80 120 10 120 17	4 ft series		150	0.8	96	F1206		72 x 36	267	0.9	216	G1809
5 ft series 60 x24 120 1 F1906 72 x 60 160 15 360 GlB18 56 GlB18 60 x30 96 1.3 150 F1508 7 ft series 84 x 24 343 0.7 168 02106 60 x36 80 15 180 F1509 84 x 36 229 1.1 252 0210 2010 60 x 60 60 x 42 69 1.8 210 F1510 84 x 36 229 1.1 252 0210 0210 12 144 F1808 84 x 48 171 1.4 356 02110 12 144 F1808 84 x 48 171 1.4 356 02111 66 ft series 72 x 30 80 1.5 180 F1808 84 x 84 80 1.1 140 141 470 02115 84 x 72 1114 21 504 02115 64 180 140 84 84 72 111 42 504 02115 80 12 12		48×30	120	1.0	120			72 x 42	229	1.1	252	G1810
6 fb series 6 Ox 24 120 1 0 120 F1506 77 x 27 133 1.8 422 161818 C2106 60 x 36 80 1 5 180 F1508 7 ft series 84 x 22 343 0.7 168 C2106 60 x 36 60 x 36 80 1 5 180 F1509 84 x 84 20 274 0.9 210 C2100 62108 60 x 60 48 25 29 11 252 C2109 66 x 60 48 25 29 11 252 C2109 66 x 60 48 25 30 F1515 84 x 84 171 14 336 C214 224 C2111 224 C2111 224 C2111 224 C2111 225 188 C2112 227 24 288 F1819 84 x 84 19 18 240 C2118 42 5188 C2121 225 588 C2121 240 250 240 280 240 240 240		48×36	100	1.2	144	F1209		72 x 48	200	1.2	288	G1812
60x30		48 x 48	75	1.6	192	F1212		72 x 60	160	1.5	360	G1815
60x36 80 15 180 F1509 84 x 30 274 0.9 210 0.2108 60x42 60 18 210 F1510 84 x 36 229 11 252 2010 60x48 60 2.0 240 F1512 84 x 48 171 14 336 2210 61t series 72x24 100 12 144 F1806 84 x 50 137 18 420 62115 72x30 80 15 180 F1808 84 x 50 137 18 420 62115 72x30 67 18 216 F1809 84 x 84 71 14 21 504 62115 72x30 67 18 216 F1809 84 x 84 71 14 21 504 62115 72x40 50 24 288 F1812 86 x 30 240 10 240 62508 72x40 40 30 30 360 F1815 96 x 36 200 12 288 62509 72x40 40 30 360 F1815 96 x 36 200 12 288 62509 72x40 40 30 360 F1815 96 x 36 200 12 288 62509 62506	5 ft series	60 x 24	120	1.0	120	F1506		72 x 72	133	1.8	432	G1818
G0x42		60x30	96	1.3	150	F1508	7 ft series	84 x 24	343	0.7	168	G2106
6		60x36	80	1.5	180	F1509		84 x 30	274	0.9	210	G2108
6ft series		60 x 42	69	1.8	210	F1510		84 x 36	229	1.1	252	G2109
6 ft series		60 x 48	60	2.0	240	F1512		84 x 42	196	1.2	294	G2110
1.5		60 x 60	48	2.5	300	F1515		84 x 48	171	1.4	336	G2112
Page	6 ft series							84 x 60	137		420	G2115
Page			80					84 x 72	114	2.1	504	G2118
72x 48 50 2.4 288 F1812 96 x 30 240 1.0 240 G2508 72 72x60 40 3.0 360 F1815 96 x 36 200 1.2 288 G2509 72x72 33 3.6 432 F1818 96 x 42 171 1.4 336 G2510 76 series 84x24 86 1.4 168 F2706 96 x 48 150 1.6 384 G2512 84x36 57 2.1 252 F2109 96 x 72 100 2.4 576 G2518 84x36 57 2.1 252 F2109 96 x 72 100 2.4 576 G2518 84x42 49 2.5 294 F2110 96 x 72 100 2.4 576 G2518 84x42 49 2.5 294 F2110 96 x 72 100 2.4 576 G2518 84x42 29 4.2 504 F2112 96 x 96 x 96 75 3.2 768 G2525 84x42 29 4.2 504 F2118 96 x 96 x 96 75 3.2 768 G2525 84x42 29 4.2 504 F2118 108 x 24 267 0.9 216 G2706 84x2 29 4.2 504 F2118 108 x 36 178 1.1 270 G2708 84x84 25 4.9 598 F2121 108 x 36 178 1.4 324 G2709 86 t18 x 48 133 1.8 432 G2710 96 x 36 40 40 40 40 F2515 108 x 42 152 1.6 378 G2710 96 x 36 40 40 40 F2515 108 x 48 133 1.8 432 G2712 96 x 48 8 58 50 2.4 288 F2509 108 x 46 133 1.8 432 G2712 96 x 48 38 3.2 384 F2512 108 x 36 178 x 49 13 3 1.8 432 G2712 96 x 40 40 40 F2515 108 x 42 152 1.6 378 G2712 96 x 40 38 3.2 384 F2512 108 x 36 178 x 49 12 50 6 G2755 96 x 40 40 400 F2515 108 x 48 133 1.8 432 G2712 96 x 40 40 40 F2515 108 x 48 133 1.8 432 G2712 96 x 40 40 40 F2515 108 x 48 133 1.8 432 G2712 108 x 56 67 3.6 864 G2725 96 x 40 40 40 F2515 108 x 86 67 3.6 864 G2725 96 x 40 40 40 F2515 108 x 86 67 3.6 864 G2725 96 x 40 40 40 F2515 108 x 86 67 3.6 864 G2725 96 x 40 40 40 F2515 108 x 86 67 3.6 864 G2725 96 x 40 40 40 F2515 108 x 86 67 3.6 864 G2725 108 x 1				1.8		F1809		84 x 84	98	2.5	588	G2121
72x60							8 ft series		300		192	
7ft series												
7 ft series								96 x 36	200	1.2		
84 x 30											336	G2510
B4×36	7 ft series											
B4x42												
B4448												
B4 x 60												
84x72 29 4.2 504 F2118 108 x 36 213 1.1 270 G2708 8 ft series 96x24 75 1.6 192 F2506 108 x 42 152 1.6 378 62710 96x30 60 2.0 240 F2508 108 x 48 133 1.8 432 G2712 96x36 50 2.4 288 F2509 108 x 60 107 2.3 540 G2715 96x42 43 2.8 336 F2510 108 x 60 107 2.3 540 G2715 96x48 38 3.2 384 F2512 108 x 96 67 3.6 864 G2725 96x60 30 4.0 480 F2518 108 x 96 67 3.6 864 G2725 96x96 19 6.4 768 F2525 118 x 30 195 1.2 295 G3008 9 ft series 108x96 17 18												
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		118 x 116	13	9.5	1141	F3030	20 ft series	240 x 120	24	10.0	2400	G240120

^{*}The Shower Mat has a 5" center drain hole and exterior dimensions of 32" x 32". Information subject to change at any time. For a complete list of up-to-date specifications, please visit nVent.com/NUHEAT.



- 150 ft² can be installed on a single 120 V circuit (120 ft² at 15 watts)
- 300 ft² can be installed on a single 240 V circuit (240 ft² at 15 watts)
- After dimensions are confirmed, custom mats are manufactured in only 3 days.

Material	Consist of a single-conductor tinned copper braided heating wire sandwiched in a pre-configured pattern between durable, two porous layers of fabric
Operating Voltage	120 V, 208 V, and 240 V
Power Output	12 W/ ft ² (15 W/ft ² when required/specified)
Maximum Continuous Exposure Temperature	194°F (90°C)
Heating Cable	Single wire with ground braid outer layer
Cold Lead	2-wire, 18 AWG plus ground braid layer; 10 ft (3 m) length

BENEFITS

Perfect fit for any room. The Custom Mat is custom manufactured based on your floor dimensions to provide 100% heating coverage. Once dimensions are confirmed, a custom mat is manufactured to fit the exact dimensions of your floor area.

Perfect heat distribution. Custom Mats eliminate the need to calculate and experiment with wire spacing during the installation. Consistent wire spacing and heat coverage is guaranteed.

Easy to install. Custom Mats are ready to install right out of the box. The Custom Mat is simply adhered to the subfloor using thinset and flooring can be immediately installed on top.

Reduces installation time. Custom Mats shortens the installation process compared to cable and mesh systems because it eliminates the need to manipulate the heating product on site.

Does not raise floor height. Custom Mats guarantee minimal floor height increase. At 1/8 in thick, the ultra low profile of this product reduces the build up on the floor which makes transitions possible without the use of transition strips.

Higher heat output options. Custom Mats can be manufactured to produce the standard 12 W/ft² (41 BTUs/ft²) or 15 W/ft² (51 BTUs/ft²) for areas where more heat is needed at no additional cost.

Short delivery time. Custom Mats can be manufactured in just three days and ships out to the customer four days after dimensions are confirmed.

Error-free. Custom Mats eliminate the need to calculate and experiment with wire spacing during the installation. Consistent wire spacing and heat coverage is guaranteed.

Custom Mats

THE THINNEST CUSTOM-BUILT ELECTRIC FLOOR HEATING MAT

HOW TO MEASURE YOUR ROOM FOR A CUSTOM MAT

Pick a corner of the room and use that as the starting point for your measurements. Remember that you must return to this starting point at the end of your measurements.

- 1. Measure and draw the walls of the room on paper and record the measurements.
- 2. Measure and draw the location of cabinets and vanities, make sure to take the measurement right up to the toe-kick.
- 3. Measure and draw the location of floor features such as vents and toilet drains (measure from the walls to the center of the toilet drain).
- 4. Indicate the thermostat location and voltage if known.

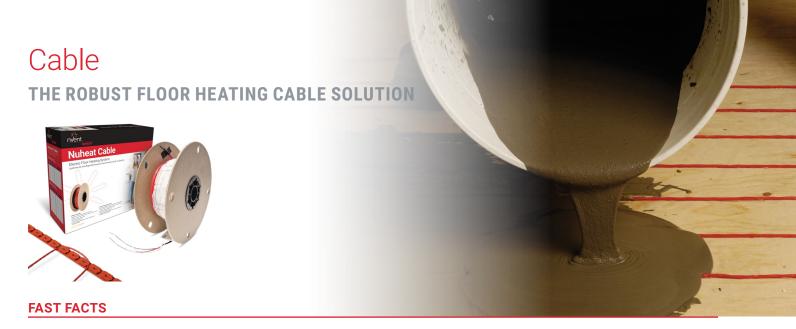
An online measuring tutorial is available at: http://www.nuheat.com/customer-care/how-to-measure

HOW TO ORDER

- 1. Obtain an accurately measured floor plan including all perimeter dimensions and any vents or obstacles in the floor. Note the thermostat location. See Mat Measuring for steps to do this correctly.
- 2. Email your design and all customer and job information to res.customercare@nvent.com
- 3. Upon design confirmation, you will receive a quote for your project (quote turnaround time is ~24 hours).
- 4. Have customer confirm all dimensions and have customer sign off on their design. Submit purchase order.
- 5. Mat will arrive 6-7 business days from the time order is placed.

HOW TO INSTALL

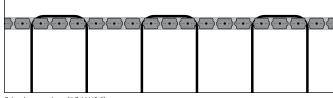
- Step 1: Spread modified thinset onto subfloor using minimum 1/4 in x 1/4 in square notched trowel.
- Step 2: Place Custom Mat onto fresh thinset, press firmly to create 100% contact between Custom Mat, thinset and subfloor.
- **Step 3:** Secure floor sensor probe between heating wires.
- **Step 4:** Apply a thin layer of thinset and install tile/stone flooring as per manufacturer's instructions.



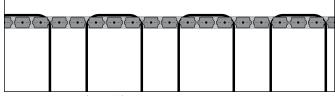
- · Compatible with Nuheat Membrane and other integrated heated uncoupling membrane products
- · Zero EMF heating cable design

Material	Two single conductor Tefzel-coated resistance wires covered by a tin-plated copper braid and then coated with a durable copolymer (PVC) outer jacket
Operating Voltage	120 V and 240 V
Power Output	12 - 15 W/ft² depending on wire spacing
Maximum Ambient Temperature	194°F (90°C)
Heating Cable	2-wire, grounded, twisted air with PVC outer jacket
Cold Lead	2-wire, 16-18 AWG plus ground braid layer; PVC outer jacket, 10 ft (3 m) length

Cable spacing examples







3/2/3 inch spacing (15 W/ft²)

BENEFITS:

On-site flexibility. Cable can easily be adjusted on-site to provide heat coverage where it is desired, on-site adjustment flexibility is ideal for flooring that is complex and has curves and angles.

Flexible wire spacing and heat output. Cable provides the installer the ability to adjust the wire spacing and heat output according to the installation needs. Installers only need to know the approximate square footage of the area(s) that need to be heated.

Compatible with Membrane. Cable is compatible with Membrane; the integrated floor heating and uncoupling product from nVent NUHEAT. When combined these products reduce stress caused by floor movement between a tile layer and subfloor layer.

Comprehensive selection of sizes to choose from. Cable is available in 33 sizes in both 120 & 240 V which allows installers to choose the perfect sized kit for the area they wish to heat.

Available immediately. Find a local distributor near you at http://www.nuheat.com/where-to-buy.

Cable

THE ROBUST FLOOR HEATING CABLE SOLUTION

HOW TO INSTALL:

- **Step 1:** Plan the heating cable installation before securing any part of the floor heating system to the subfloor.
- **Step 2:** Install the heating cable according to the Installation Layout Plan.
- Step 3: Install stabilizing cable guides to ensure the heating cable does not float during the self-leveling process.
- Step 4: Secure the floor sensing probe. Route the thermostat probe up to the thermostat electrical box.
- **Step 5:** Prepare the subfloor using self-levelling compound/thinset mortar as per manufacturer's instructions.
- Step 6: Install tile/stone flooring.

SELECT CABLE KIT FOR YOUR PROJECT

CABLE (120 V)

SQUARE FOOT COVERAGE								
W/ CAB	LE GUIDES		W/ MEMBRANE					
3" SPACING*	3"/2"/3" SPACING**	3 PILLARS†	2/3/2 PILLARS ^{†‡}	2 PILLARS†				
12 W/FT ²	15 W/FT ²	10 W/FT ²	12 W/FT ²	15 W/FT ²	MODEL NO.	LENGTH (FT)	AMPS	WATTS
8	6	9	8	6	N1C008	29	0.7	80
12	9	14	12	10	N1C012	47	1.2	138
15	12	17	15	12	N1C015	57	1.4	170
25	20	30	25	21	N1C025	98	2.5	299
30	25	36	31	25	N1C030	120	2.9	343
40	30	45	38	31	N1C040	148	3.7	442
50	40	57	48	39	N1C050	188	4.7	562
60	50	71	60	49	N1C060	234	6.0	719
70	55	81	68	55	N1C070	265	6.8	810
80	65	97	82	66	N1C080	318	7.9	947
85	70	102	86	69	N1C085	334	8.5	1021
95	80	115	97	78	N1C095	377	9.7	1161
110	90	129	109	88	N1C110	423	10.8	1299
120	100	145	122	98	N1C120	474	12.2	1461

Recommended

CABLE (240 V)

SQUARE FOOT COVERAGE								
W/ CAB	BLE GUIDES		W/ MEMBRANE					
3" SPACING*	3"/2"/3" SPACING**	3 PILLARS†	2/3/2 PILLARS†‡	2 PILLARS†				
12 W/FT ²	15 W/FT ²	10 W/FT ²	12 W/FT ²	15 W/FT ²	MODEL NO.	LENGTH (FT)	AMPS	WATTS
15	12	17	14	12	N2C015	56	0.7	165
20	15	24	21	17	N2C020	80	0.9	224
25	20	31	26	21	N2C025	102	1.3	302
35	30	41	35	28	N2C035	136	1.7	403
45	35	54	46	37	N2C045	178	2.2	523
55	45	63	53	43	N2C055	207	2.6	632
65	50	76	64	52	N2C065	250	3.1	742
70	60	84	71	58	N2C070	277	3.5	842
85	70	102	86	69	N2C085	334	4.3	1020
90	75	109	92	74	N2C090	358	4.6	1102
100	85	120	101	82	N2C100	393	5.0	1211
120	100	145	121	98	N2C120	472	5.9	1427
135	110	162	136	110	N2C135	529	6.8	1621
145	120	172	144	116	N2C145	561	7.1	1704
160	130	193	162	131	N2C160	630	8.0	1914
170	140	204	171	138	N2C170	665	8.6	2054
190	160	233	195	157	N2C190	757	9.6	2314
215	180	261	219	176	N2C215	849	10.8	2589
240	200	293	246	198	N2C240	953	12.1	2905
			Recommended					

For installations where higher heat output is required, alternating 3 in/2 in spacing (15 W/ft²) may be used. *3 in Spacing -12 W/ft² *Alternating 3 in/2 in spacing -15 W/ft² †Pillars of the uncoupling membrane ‡Our recommended spacing is alternating 2-3-2 pillar spacing which produces 12 W/ft². If you are installing over a concrete slab and require more heat, we recommend using 2-pillar spacing which produces 15 W/ft².



FAST FACTS

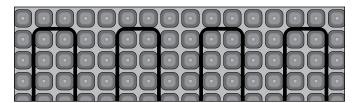
- Thin profile heating cable and electrical lead
- · Durable heating cable construction
- Flexible heat output (10, 12, 15 W/ft²)
- Largest 120 V kit covers 120 ft² and largest 240 V kit covers 240 ft², producing 41 BTUs/ft²

Material	Membrane is a polypropylene sheet that is thermo-bonded to a non-woven polypropylene fabric on the underside. It is 0.22 inches thick, 39 inches wide and weighs 840 grams/m²
Operating Voltage	120 V, 208 V, and 240 V
Power Output	10 - 15 W/ft² depending on wire spacing. Our recommended spacing is alternating 2-3-2 pillar spacing which produces 12 W/ft². If you are installing over a concrete slab and require more heat, we recommend using 2-pillar spacing which produces 15 W/ft².
Maximum Ambient Temperature	194°F (90°C)
Heating Cable	2-wire, grounded, twisted air with PVC outer jacket
Cold Lead	2-wire, 16-18 AWG plus ground braid layer; PVC outer jacket, 10 ft (3 m) length

Membrane spacing examples







2 Pillar spacing (15 W/ft2)

BENEFITS:

Reduces risk of tile cracks due to subfloor movement. Membrane is an uncoupling membrane which absorbs subfloor movements that can cause tiles to crack. Membrane received the highest 'Extra Heavy' result in Robinson Floor Test (ASTM C627).

Acts as tile underlayment. Membrane can replace plywood/concrete board as the tile underlayment in most tile installations.

Compatible with the Cable floor heating system. Membrane is specifically designed to accept the best-in-class Cable floor heating system. This combined system simplifies the installers' lives, as there is no need for metal or plastic guides and self leveler.

Flexible wire spacing and heat output. When combined with Cable as the floor heating solution, the integrated system provides the installer the ability to adjust the wire spacing and heat output according to the installation needs.

Compatible with modified thinsets for tile setting. Tile/stone floors can be installed on Membrane using modified and unmodified thinsets.

On-site flexibility. Membrane is cut on-site to fit the room. Cable is then installed into Membrane and adjusted on-site to provide heat coverage where it is desired.

Membrane

THE INTEGRATED ELECTRIC FLOOR HEATING AND UNCOUPLING SOLUTION

BENEFITS CONTINUED:

Waterproof. Membrane is made from extruded polypropylene and can be used as a waterproofing membrane.

Available immediately. Find a local distributor near you at http://www.nuheat.com/where-to-buy

HOW TO INSTALL:

Step 1: Spread thinset mortar to the substrate using a trowel.

Step 2: Roll Membrane onto the thinset mortar and press with a roller or a flat trowel.

Step 3: Snap the Cable into the Membrane.

Step 4: Using flat trowel, cover the membrane with thinset to ensure heating cable is encapsulated with thinset.

Step 5: Install tile/stone flooring.

SELECT CABLE KIT & MEMBRANE FOR YOUR PROJECT

				STANDAR	ND FACKAGE
CATALOG NUMBER	PART NUMBER	DESCRIPTION	DIMENSIONS	WEIGHT (lbs)	SIZE (in)
NUMEM161	AC0105	Membrane - Large Roll (161 ft²)	3'3 in x 49.5 ft	30 lbs	39 in x 14.5 in
NUMEM054	AC0106	Membrane - Small Roll (54 ft²)	3'3 in x 16.5 ft	10 lbs	39 in x 9.5 in
PRBPE 1505	AC0107	Waterproofing Seam Tape - 6 in x 16 ft	6 in x 16 ft	6 lbs	16 in x 6 in x 12 in
PRBPE 1530	AC0108	Waterproofing Seam Tape - 6 in x 98 ft	6 in x 98 ft	13 lbs	16 in x 6 in x 12 in
NUMEM250	FG0800	Membrane - 10.6 ft ² Sheets (25 sheets per box)	3'3 in x 3'3 in	45 lbs	40 in x 40 in x 8 in

CABLE (120 V)

	SQUA	RE FOOT COVI			
MODEL #	3 PILLARS*	2/3/2 PILLARS*†	2 PILLARS*	LENGTH (FT)	TOTAL WATTS
	10 W/FT ²	12 W/FT ²	15 W/FT ²		
N1C008	9	8	6	29	80
N1C012	14	12	10	47	138
N1C015	17	15	12	57	170
N1C025	30	25	21	98	299
N1C030	36	31	25	120	343
N1C040	45	38	31	148	442
N1C050	57	48	39	188	562
N1C060	71	60	49	234	719
N1C070	81	68	55	265	810
N1C080	97	82	66	318	947
N1C085	102	86	69	334	1021
N1C095	115	97	78	377	1161
N1C110	129	109	88	423	1299
N1C120	145	122	98	474	1461

Recommended

CABLE (240 V)

	SQUA	RE FOOT COVI			
MODEL #	3 PILLARS*	2/3/2 PILLARS* [†]	2 PILLARS*	LENGTH (FT)	TOTAL WATTS
	10 W/FT ²	12 W/FT ²	15 W/FT ²		
N2C015	17	14	12	56	165
N2C020	24	21	17	80	224
N2C025	31	26	21	102	302
N2C035	41	35	28	136	403
N2C045	54	46	37	178	523
N2C055	63	53	43	207	632
N2C065	76	64	52	250	742
N2C070	84	71	58	277	842
N2C085	102	86	69	334	1020
N2C090	109	92	74	358	1102
N2C100	120	101	82	393	1211
N2C120	145	121	98	472	1427
N2C135	162	136	110	529	1621
N2C145	172	144	116	561	1704
N2C160	193	162	131	630	1914
N2C170	204	171	138	665	2054
N2C190	233	195	157	757	2314
N2C215	261	219	176	849	2589
N2C240	293	246	198	953	2905
		Perommended	-		

Recommended

 $[\]mbox{\ensuremath{^{\star}}}\xspace$ pillars of the uncoupling membrane

 $[\]dagger$ Our recommended spacing is alternating 2-3-2 pillar spacing which produces 12 W/ft². If you are installing over a concrete slab and require more heat, we recommend using 2-pillar spacing which produces 15 W/ft².

Mesh

THE SELF-ADHESIVE ELECTRIC FLOOR HEATING SOLUTION





FAST FACTS & ELECTRICAL DETAILS:

- · Zero EMF cable design
- 32 kit sizes; largest 120 V covers 120 ft² and largest 240 V covers 240 ft²
- · Thin, cold lead and connection joint

Material	Two single conductor Tefzel-coated resistance wires covered by a tin-plated copper braid and then coated with a durable copolymer (PVC) outer jacket. Heating cable is attached to a self-adhesive fiberglass mesh material.	
Operating Voltage	120 V, and 240 V	
Power Output	12 watts per square foot	
Maximum Continuous Exposure Temperature	194°F (90°C)	
Heating Cable	2-wire, grounded, twisted air with PVC outer jacket	
Cold Lead	2-wire, 18 AWG plus ground braid layer; 10 ft (3 m) length	

BENEFITS:

On-site flexibility. Mesh is adjusted on-site to provide heat coverage where it is desired. Installers only need to know the approximate square footage of the area(s) that need to be heated.

Easy to layout. Mesh comes in a self-adhesive roll which is pressed onto the subfloor and adjusted on-site to provide heat coverage where it is desired.

Comprehensive selection of sizes to choose from. Mesh is available in 32 sizes in both 120 & 240 V which allows installers to choose the perfect sized kit for the area they wish to heat.

Available immediately. Find a local distributor near you at http://www.nuheat.com/where-to-buy

Mesh

THE SELF-ADHESIVE ELECTRIC FLOOR HEATING SOLUTION

HOW TO INSTALL:

Step 1: Roll Mesh onto the subfloor with the wire side down. Start the Mesh installation from one corner of the room.

Step 2: Lay out and secure Mesh onto subfloor. To make a turn, cut the Mesh as required (be careful not to cut/damage the heating wire). Separate heating wire from Mesh to maintain heating coverage in small, angled, or difficult areas (if necessary).

Step 3: Embed Mesh in mortar (self-leveling compound or latex-modified thinset).

SELECT MESH KIT FOR YOUR PROJECT

CATALOG NUMBER	FT ² COVERAGE*	DIMENSIONS	WATTS	AMPS	RESISTANCE
120 V Mesh					
N1M012	12	20 in x 8 ft	139	1.2	103
N1M015	15	20 in x 9 ft	170	1.4	85
N1M025	25	20 in x 15 ft	300	2.5	48
N1M030	30	20 in x 19 ft	344	2.9	42
N1M040	40	20 in x 23 ft	442	3.7	33
N1M050	50	20 in x 29 ft	563	4.7	26
N1M060	60	20 in x 36 ft	720	6.0	20
N1M070	70	20 in x 41 ft	809	6.7	18
N1M080	80	20 in x 49 ft	947	7.9	15
N1M085	85	20 in x 52 ft	1022	8.5	14
N1M095	95	20 in x 58 ft	1161	9.7	12
N1M110	110	20 in x 65 ft	1299	10.8	11
N1M120	120	20 in x 73 ft	1461	12.2	10
240 V Mesh					
N2M015	15	20 in x 9 ft	165	0.7	349
N2M020	20	20 in x 13 ft	224	0.9	258
N2M025	25	20 in x 16 ft	302	1.3	191
N2M035	35	20 in x 21 ft	403	1.7	143
N2M045	45	20 in x 28 ft	523	2.2	110
N2M055	55	20 in x 32 ft	632	2.6	91
N2M065	65	20 in x 39 ft	742	3.1	78
N2M070	70	20 in x 43 ft	842	3.5	68
N2M085	85	20 in x 52 ft	1020	4.3	57
N2M090	90	20 in x 55 ft	1102	4.6	52
N2M100	100	20 in x 61 ft	1211	5.0	48
N2M120	120	20 in x 73 ft	1427	5.9	40
N2M135	135	20 in x 82 ft	1621	6.8	36
N2M145	145	20 in x 87 ft	1704	7.1	34
N2M160	160	20 in x 97 ft	1914	8.0	30
N2M170	170	20 in x 102 ft	2054	8.6	28
N2M190	190	20 in x 117 ft	2314	9.6	25
N2M215	215	20 in x 131 ft	2589	10.8	22
N2M240	240	20 in x 147 ft	2905	12.1	20

^{*} Square foot coverage based on square room with 2 in unheated border.

Accessories

	PART NUMBER	DESCRIPTION
Mat Sense Pro	AC0100	The Mat Sense Pro is an electrical fault indicator that monitors hot, neutral and ground wires simultaneously during Mat or Cable installation. Mat Sense Pro produces an audible alarm if the heating wire is damaged during installation.
Thermostat Probe	AC0008 – 15 ft lead wire	The Thermostat Probe is installed under the flooring surface and connects to nVent NUHEAT thermostats. It is included with all nVent NUHEAT thermostats and provides a temperature reading of the floor.
Repair Kits – Mat & Cable	AC0014 - Mat Repair Kit: AC0016 - Lead Wire Repair Kit for Mats 120 V AC0017 - Lead Wire Repair Kit for Mats 240 V AC0040 - Cable Repair Kit	
Mechanical Relay	AC0006 - Relay 120 V input & load relay 25 Amps AC0007 - Relay 240 V input & load relay 25 Amps	Relays are used to control multiple circuits with a single thermostat. They are typically used in large installations where the total amperage of the system exceeds the 15A limit of nVent NUHEAT thermostats.
Extra Cable Guides for Cable System – 12pc	AC0038	Extra cable guides for the nVent NUHEAT Cable floor heating system.
Waterproofing Seam Tape	AC0107 - 6 in x 16 ft AC0108 - 6 in x 98 ft	Waterproof seam tape for nVent NUHEAT Membrane installations where waterproofing is necessary.

Thermostats



SIGNATURE THERMOSTAT

The WiFi-enabled nVent NUHEAT Signature thermostat is the most connected floor heating control available today.

FAST FACTS

- WiFi-enabled
- Works with Amazon Alexa®, the Google Assistant®, IFTTT®, and more! Full list here: nuheat.com/connected-home
- iOS® and Android® apps
- · Open API for custom integrations
- · Local weather forecast
- Plus all features of the nVent NUHEAT Home thermostat
- 3-year limited warranty













HOME THERMOSTAT

Easy and intuitive programmable thermostat with a high resolution touchscreen interface.

FAST FACTS

- 7 day programmable floor heating thermostat
- · Built in on/off switch
- 3.5 in color touchscreen
- · Energy use monitor
- · Floor sensing and ambient air sensing
- 3-Year Warranty
- Dual-voltage (120 V & 240 V)



ELEMENT THERMOSTAT

Basic electronic thermostat – simplified functionality for ease of use.

FAST FACTS

- · Non-programmable floor heating thermostat
- Offers basic control and features for energy usage info and physical on/off switch
- · Energy efficient
- · Floor sensing and ambient air sensing
- 3-Year Warranty
- Dual-voltage (120 V & 240 V)

nVent NUHEAT Certified PRO



If you are a licensed electrician or tile installer, you can become a nVent NUHEAT Certified PRO. As a Certified PRO installer, you will receive in-depth training that includes:

- An overall understanding of floor heating applications
- · How to install all nVent NUHEAT Products
- · Floor heating installation best practices, tips and tricks

Be the first to discover new products, innovations and have the opportunity to further deepen your professional expertise and add to your credentials.

The Certified PRO Program will recognize you as a dedicated installer who is trained to the highest industry standards in electric floor heating. Your certification is a reassurance to homeowners that they are hiring a true craftsman who has received best-in-class training for nVent NUHEAT Products.

BENEFITS OF MEMBERSHIP

- · Become accredited
- · Obtain exclusive rights to offer the nVent NUHEAT 25-Year Total Care Warranty* on your floor heating installations
- Get listed on the Certified PRO installer search tool on nVent.com/NUHEAT
- Take advantage of exclusive promotions and discounts
- · Attend exclusive events

Interested? Visit our website http://www.nuheat.com/certified-pro to learn more.

Warranty

We believe in the superior quality of our products. That's why we offer a nVent NUHEAT 25-Year Product Warranty on all nVent NUHEAT Floor Heating Systems. We also offer a 25-Year Total Care Warranty for installations completed by Certified PRO installers.



25-Year Product Warranty

• 25-Year Warranty for the value of replacing any nVent NUHEAT floor heating product including Standard Mats, Custom Mats, Cable, Membrane, and Mesh



25-Year Total Care Warranty*

- STANDARD PRODUCT WARRANTY PLUS:
 - i. Cost of floor heating repair and installation
 - ii. Cost of floor covering material
 - iii. Cost of installation of floor covering

*Total Care Warranty is an upgrade of our Product Warranty and is offered exclusively and at no additional cost for all installations completed by nVent NUHEAT Certified PRO installers. Learn more about how to become a nVent NUHEAT Certified PRO Installer at nVent.com/NUHEAT

³⁻Year Warranty for the value of replacing nVent NUHEAT Thermostats, including Signature, Home, and Element. In order to qualify for this warranty, you must keep a copy of the tests report, relevant invoice, installation photographs and sketches. You must also complete an online warranty registration form within 30 days of installation.



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