

# backlit thermostats

The OTH700 and TH115 series electronic thermostats are specially designed to regulate **Thermat** floor heating systems. They offer two temperature control modes and a PIA optimized microprocessor that regulates and maintains floor or room temperature within  $\pm 0.5\text{ }^{\circ}\text{C}$  ( $1\text{ }^{\circ}\text{F}$ ) of the setpoint. Designed for maximum safety, they include a ground fault circuit interrupter (GFCI), which Ouellet strongly recommends for all rooms with heated floors.

Product #	Description	Amps	Volts	Protection
OTH702-GA**	Non programmable electronic thermostat for floor heating system	15	120	GFCI 5 mA*
OTH700-GA**			240/208	GFCI 5 mA*
OTH702-GB**			120	GFCI 15 mA*
OTH700-GB**			240/208	GFCI 15 mA*
OTH700-AF-12VDC**	Non programmable main thermostat	0.075	12VDC	-----
TH115-AF-120GA**	Programmable electronic thermostat for floor heating system	15	120	GFCI 5 mA*
TH115-AF-240GA**			240/208	GFCI 5 mA*
TH115-AF-120GB**			120	GFCI 15 mA*
TH115-AF-240GB**			240/208	GFCI 15 mA*
TH115-AF-12VDC**	Programmable main thermostat	0.075	12VDC	-----

\* GFCI: Ground fault circuit interrupter.  
\*\* 15' floor sensor included.

# slave units

The CT230 series slave units are specially designed for large floor heating applications exceeding 15A. They drive their own part of the floor and are also equipped with a ground fault circuit interrupter (GFCI). These modules, which are controlled by a main thermostat (see chart above), require only one thermostat to regulate large areas.

Product #	Description	Amps	Volts	Protection
CT230-120GA**	Slave unit for floor heating system	15	120	GFCI 5 mA*
CT230-240GA**			240/208	GFCI 5 mA*
CT230-120GB**			120	GFCI 15 mA*
CT230-240GB**			240/208	GFCI 15 mA*

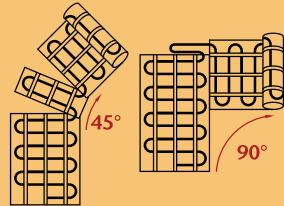
\* GFCI: Ground fault circuit interrupter.  
\*\* Compatible with OTH700-AF-12VDC and TH115-AF-12VDC only.

# easy does it!

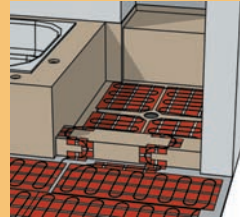
**Thermat** makes it easy to get around obstacles.

The **Thermat** floor heating system is easy to install and is suitable for all configuration:

**45° or 90° walls**

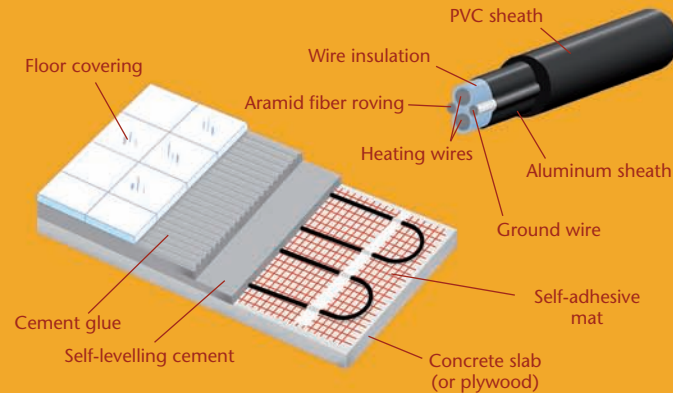


**Under the shower floor and on the stairs**



User friendly **Thermat** was specifically designed to meet North American construction standards, where joists are spaced 16" apart.

# isometric view



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# specifications

Floor Heating System

# THERMAT



Width 16" (0.41 m)

Product #	120V	Length		Covered Surface*		Watts
		ft.	m	sq. ft.	sq. m	
-	OTM0082	6'	1.8	8	0.7	85
-	OTM0122	7' 6"	2.3	10	0.9	120
-	OTM0152	10'	3.0	13	1.2	150
OTM0170	OTM0172	11' 6"	3.5	15	1.4	170
OTM0240	OTM0242	15'	4.6	20	1.9	240
OTM0300	OTM0302	19'	5.8	25	2.4	300
OTM0360	OTM0362	22' 6"	6.9	30	2.8	360
OTM0420	OTM0422	26' 6"	8.1	35	3.3	420
OTM0475	OTM0472	30'	9.1	40	3.7	475
OTM0600	OTM0602	37' 6"	11.4	50	4.6	600
OTM0720	OTM0722	45'	13.7	60	5.6	720
OTM0840	OTM0842	52' 6"	16.0	70	6.5	840
OTM0960	OTM0962	60'	18.3	80	7.4	960
OTM1080	-	67' 6"	20.6	90	8.4	1080
OTM1200	-	75'	22.9	100	9.3	1200
OTM1440	-	90'	27.4	120	11.1	1440
OTM1600	-	105'	32.0	140	13.0	1600
OTM1920	-	120'	36.6	160	14.9	1920

Width 32" (0.82 m)

Product #	120V	Longueur		Covered Surface*		Watts
		ft.	m	sq. ft.	sq. m	
OTM0840-32	OTM0842-32	26' 3"	8.0	70	6.5	840
OTM0960-32	OTM0962-32	30'	9.1	80	7.4	960
OTM1080-32	-	33' 9"	10.3	90	8.4	1080
OTM1200-32	-	37' 6"	11.4	100	9.3	1200
OTM1440-32	-	45'	13.7	120	11.1	1440
OTM1600-32	-	52' 6"	16.0	140	13.0	1600
OTM1920-32	-	60'	18.29	160	14.9	1920

208V = 75% of wattage at 240V.  
15' floor sensor included. 13' 6" cold lead included.

\* Does not represent the surface of the room but rather the surface covered by the floor heating system, excluding fixtures and other spaces to consider.



www.ouellet.com

# let's get started!

## In a few easy steps!

- 1) Sketch the room plan with accurate measurements and location of fixed elements (bath, cabinet, closet, etc.) or complete the Ouellet room layout form. Forward the sketch via our toll-free fax line to 1 800 662-7801 or send an email to info@ouellet.com.
- 2) Our team of specialists will calculate project dimensions to determine the **Thermat** products required.
- 3) Within 48 business hours we will forward you a project estimate.
- 4) We will provide the master electrician with courteous technical support throughout the installation process.

# installation steps

1

Assemble required materials.



7

Cover tight spaces and fit mat around obstacles.



2

Clean the subfloor well to ensure mat adherence.



8

When installed, test the integrity of the cable and record the readings on the measurement table.



3

Mark the work site.



9

Install floor temperature sensor.



4

Test the integrity of the cable. Carefully read the installation guide prior to installing the heating cable.



10

Spread self-levelling cement and allow to dry. Floor covering may now be installed. Test the integrity of the cable before and after embedding the heating cable in cement and record the readings on the measurement table.



5

Make a groove in plywood or concrete to hold the cold lead connection with the heating cable.



11

When connecting the system to the thermostat, test the integrity of the cable and record the readings on the measurement table.



6

Unroll the mat. As needed, change mat direction without cutting the heating cable.



12

Before turning on the **Thermat** floor heating system, make sure all construction materials are well cured (check manufacturer instructions).



# the comfort of radiant heating

The **Thermat** floor heating system provides comfort and well-being through radiant heating. By heating the floor itself instead of the surrounding air, the system provides indirect heat that radiates from the floor up and is absorbed by surrounding objects, warming the entire room. As an integrated heating system, **Thermat** produces enveloping heat that is also clean, cost-effective, uniform, and constant.

Whether it is used for additional comfort or as a primary heat source, **Thermat** is a safe and "green" heating solution that harnesses the benefits of radiant heating, a process that occurs naturally in nature and has long been under-utilized in the industry.

# installer benefits

## Slash installation time by up to 75%

- Easy to calculate surface area;
- 16" and 32" mats meet North American construction standards;
- Integrated components: self-adhesive mat, heating cable, and cold lead;
- A single material to handle;
- Suitable for ALL configurations.

## ALL-IN-ONE heating cable

- A single cold lead connection to thermostat;
- Three-wire cable (twin conductor cable, plus ground) with a protective PVC sheath.

## Tough, even when exposed after installation!

- Stable and resistant;
- Lets you continue working (soft rubber soles).

# consumer benefits

- Compatible with ceramic, stone tiles, marble, granite (For other floor coverings check that floor warming systems are recommended and accepted by the floor covering manufacturer);
- Maximizes comfort and energy efficiency (12W/sq. ft.) (130W/sq. m);
- Provides enveloping warmth as well as comfortable, constant floor temperature, year round;
- Can be used to enhance comfort or as a primary room heating source;
- Is invisible and completely silent;
- Does not produce dust, dry the air, or create drafts;
- Maintains your comfort with a lower room temperature thanks to the radiant effect;
- Facilitates design and decoration by ensuring uncluttered surfaces;
- Requires no maintenance;
- Adds value to your home;
- Produces negligible magnetic field.

**NEVER cut or shorten the heating cable**

For concrete slab, use spray adhesive to secure cold lead, sensor and mat.