

THE MOST COMPLETE LINE OF ELECTRICAL RADIANT HEATING PRODUCTS IN THE MARKET

ELECTRIC RADIANT

BY RADIANT SUPPLY GROUP

RADIANTSUPPLYGROUP.COM

CAVOUR STORE:

"I only spent **\$1,000** for the **entire heating season** on my 6,400 sq. ft. convenience store and shop."

CAVOUR STORE

AFFORDABLE HEAT

➔ WITHOUT THE HEADACHES

Radiant
supply group llc.



RADIANT HEAT



PTAC UNITS



ICE & SNOW MELT

NEXT GENERATION[®] BUILDING SYSTEMS[™]



Radiant Supply Group offers the most complete line of electrical radiant heating products in the market today – all under one roof. We only carry the best products from the top manufacturers in the world. Whether you are interested in radiant heat, PTAC units or ice & snow melt; we have a solution for you.

Agricultural

Industrial

Commercial

Multi-Family

Residential

**>>> Radiant
supply group llc.**

(605) 999-5425

radiantsupplygroup.com

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MATT MOELLER HOG FARM



ROBERT MALISCH | owner

WELCOME

Radiant Supply Group consults, teaches and trains contractors, electricians, entrepreneurs and others how to listen to what building owners want and advise them on how to accomplish that goal. We stress through education how to obtain the most comfortable, trouble free, understandable and economical heating and snow melting systems available today. We strive daily to connect people with the correct products to achieve superior customer satisfaction and higher standards of excellence for the industry. Our goal is to serve our customers with a character and a purpose that brings honor and glory to God. *We look forward to serving you.*

ROBERT MALISCH

(605) 999-5425

bob@radiantsupplygroup.com



www.radiantsupplygroup.com



WHAT IS "RADIANT HEAT"?

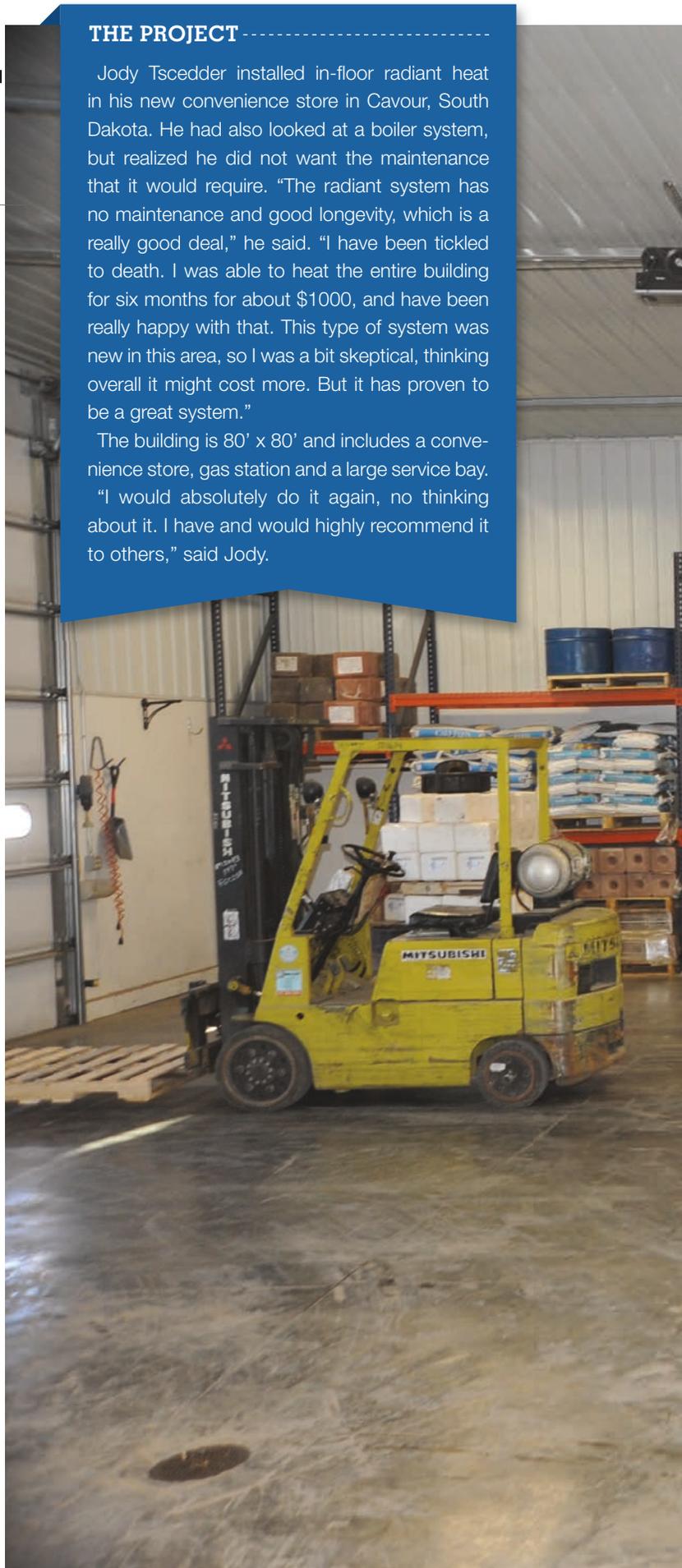
Radiant heat is the transfer of thermal energy or heat. It does not transfer heat to something warmer than it is and the greater the difference in temperature the more heat it transfers. The biggest difference between radiant heat and forced air is that radiant heat works by heating objects, not air. Very similar to the way the sun heats the earth.

TESTIMONIAL

THE PROJECT

Jody Tscedder installed in-floor radiant heat in his new convenience store in Cavour, South Dakota. He had also looked at a boiler system, but realized he did not want the maintenance that it would require. "The radiant system has no maintenance and good longevity, which is a really good deal," he said. "I have been tickled to death. I was able to heat the entire building for six months for about \$1000, and have been really happy with that. This type of system was new in this area, so I was a bit skeptical, thinking overall it might cost more. But it has proven to be a great system."

The building is 80' x 80' and includes a convenience store, gas station and a large service bay. "I would absolutely do it again, no thinking about it. I have and would highly recommend it to others," said Jody.



CAVOUR STORE

6,400 sq. ft. | Cavour, South Dakota



“ I HAVE BEEN TICKLED TO DEATH. I WAS ABLE TO HEAT THE ENTIRE BUILDING FOR SIX MONTHS FOR ABOUT \$1000, AND HAVE BEEN REALLY HAPPY WITH THAT. ”

JODY TSCEDDER
CAVOUR STORE

IN-FLOOR HEAT

For Homes, Shops, Retail, and Manufacturing.

LOW MAINTENANCE, LOW COST.

ELECTRIC IN-FLOOR Heating Cables allow you the comfort of an in-floor radiant heating system without all the added expense, hassle and maintenance of a tube and boiler system. These systems can be installed in less than half the time of a Pex Tubing system with less up front expense. Many utility companies offer reduced rates for these types of systems through the use of reduced winter heating rates or dual fuel heating rates. Shops, Basements, Garages, Warehouses, and Manufacturing Facilities are all perfect applications for an Electric In-Floor Heating System.

There are 3 main benefits to these

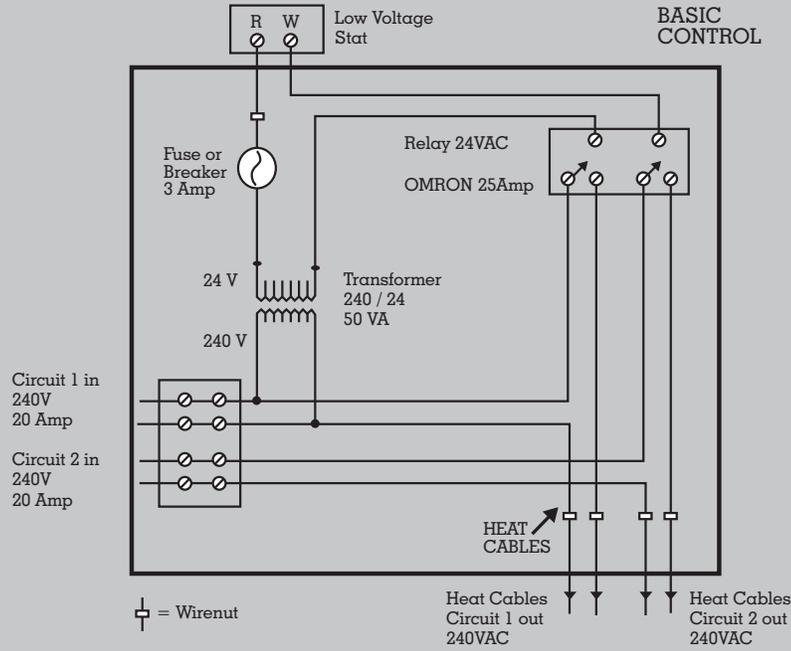
systems compared to a Hydronic Tube and Boiler System:

- Reduced Installation Costs
- Reduced Operation Costs
- Reduced Maintenance Costs

The cost to install an In-Floor Cable System varies by area, but is typically 25% - 50% less than a Tube and Boiler System. This savings is achieved because the material cost is less than everything that is needed for a quality Tube and Boiler System. Tube and Boiler systems need PEX Tubing, Manifolds, Pumps, Valves, Copper Piping, Boilers, Glycol (Anti-Freeze), Thermostats and Wiring to name a few. The other thing that saves money is the fact that the installation time is considerably less. Average rough in of 500'

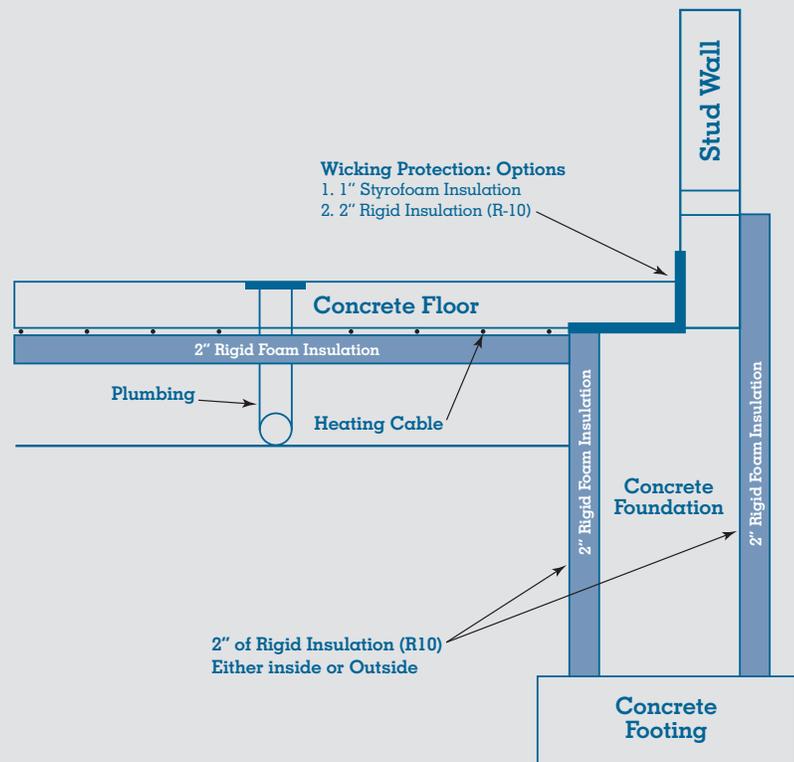


RELAY ENCLOSURE HEATING CABLE WIRING DIAGRAM



* Note: For reference only. Use a professional installer and adhere to your local code.

IN-FLOOR HEAT INSTALLATION DIAGRAM



PRODUCTS



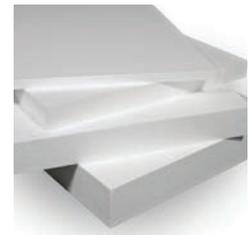
IN-FLOOR HEATING CABLE
9 watt per linear foot cable twin conductor cable. 240v standard, 480v special order. Output is 9 watts at 12" spacing, 12 watts at 9" and 7 watts at 15". Output reduced by 25% when operating at 208v.



RELAY ENCLOSURE
NEMA Enclosure for mounting relays
25 Amp Relay: Flange Mounted DPSTNO 24v Coil Relay, 25 Amp, 240v. Generally need 1 relay per mat or cable use.



DIGITAL THERMOSTAT
Non-Programmable Digital Low Voltage Thermostat. Can be used with In-Floor Sensor. Can be set to sense air or floor temperature.



EPS RIGID FOAM BOARD
Used as insulation under heating and snow melting systems. We recommend 2" minimum high density rigid insulation.



FOAM BOARD STAPLES
Staples designed for use with the foam board staple gun. They are used to secure heating cable to foam insulation boards.



FOAM BOARD STAPLER
Used to easily secure cable or mat to rigid foam board.

IN-FLOOR HEAT



of cable takes about 20 minutes to complete which saves valuable time and labor on the project.

Operating an In-Floor Cable System is typically less on a monthly basis than a Hydronic System. In Rural areas most Hydronic Systems choose to go with a propane boiler. Electric cables generally operate on average 40% less than propane. Check with your local utility to compare the electric heat rate to the current cost of propane and you may find that contrary to what you are lead to believe by the Hydronic folks electric is the cheaper option.

The maintenance costs of whatever system you choose are often overlooked, but they shouldn't be. Maintenance costs are an expense that should be planned on, in particular with a tube and boiler. More moving parts generally means higher maintenance costs. There are moving parts that the need to be repaired and maintained over time due to leaks, corrosion and normal wear and tear of the mechanical system. Electric In-Floor Cable Systems require almost no maintenance. The systems have very few moving parts

to fail. Small relays and an occasional thermostat or floor sensor generally are all that needs replacing. Cable failure is rare, but if it happens a locator can generally pinpoint the problem to within 6" of the fault and make the necessary repairs. Once the In-Floor Cable system is installed the only basic annual maintenance is to set the thermostat to the desired level and enjoy the comfort of the radiant heat.

Contact us to price out your next project and see the differences for yourself. We would be happy to assist you with any questions you may have.



Agricultural truck shop, Inwood, IA.



BENEFITS

**AFFORDABLE
INSTALLATION
COSTS –
TYPICALLY A
FRACTION OF
A HYDRONIC
SYSTEM**

**LESS
MAINTENANCE
THAN HYDRONIC
SYSTEMS**

**VERY SIMPLE
TO ZONE**



TESTIMONIAL



THE PROJECT

Recently, Slade Weller completed a new Bobcat equipment building that houses a shop and retail area in Mitchell, South Dakota. He chose electric in-floor radiant heat from Radiant Supply to heat the shop area.

"We also looked at a complete forced-air system, but we had done a radiant system in a manufacturing plant at Fort Pierre and we ultimately knew that it was what we wanted to do," said Slade.

"In a shop where there are mechanics working on the floor, their comfort was important to us. This system provides a warm, comfortable floor. The same is true in the manufacturing plant. The system warms up the objects including the walls. It is much better than trying to heat up the air and then push the air around, especially in a building with tall sidewalls."

The manufacturing plant is a 21,000 sq. ft. building with 25' sidewalls. There, the radiant system is run at night on off-peak hours and the plant is warm when the employees come in.

"The system is simple and it is easy. We love it. We are looking at a couple more buildings right now, and we are planning to use radiant heating in those as well."



MORRIS INC. | 21,000 sq. ft.
Mitchell and Fort Pierre, South Dakota

“THE SYSTEM IS SIMPLE AND IT IS EASY. **WE LOVE IT.** WE ARE LOOKING AT A COUPLE MORE BUILDINGS RIGHT NOW, AND WE ARE PLANNING TO USE RADIANT HEATING IN THOSE AS WELL.”

SLADE WELLER
MORRIS INC.



IN-FLOOR THERMAL STORAGE



TAKING ADVANTAGE OF REDUCED ELECTRIC RATES

BENEFITS

LOWER
OPERATING
COSTS

VERY LOW
MAINTENANCE

NO WASTED
SPACE NEEDED
FOR A BOILER AND
PLUMBING

UNIFORM HEAT

ELECTRIC THERMAL Storage Heating can be a great way to take advantage of utility company reduced rates for electric use during off-peak hours. These are usually evening hours and help the utilities take advantage of less used power and distribute their load more evenly throughout the day, which helps them reduce demand costs. Many times these rates are up to 70% less than the general service rates. Many large utility companies have these programs. Black Hills Power, Otter Tail Power and Xcel Energy are three examples that have fantastic

off peak rates.

Thermal Storage Systems are installed a little differently than regular in-floor cable systems. Since the hours of operation are limited the wattage per square foot needs to increase. We recommend installing the cables on 2" High Density Foam Board. Once attached to the foam the cables need to be covered with 8"-12" of sand. Remember to front dump the sand if using a skid loader and only drive over the base of sand NOT the cables. As a rule of thumb wattage needs to increase by 30%-40% per square foot depending on the number of hours it can run. It is also very important to make sure the perimeter



Pace Manufacturing's 92,000 sq. ft. building in Brandon, SD.

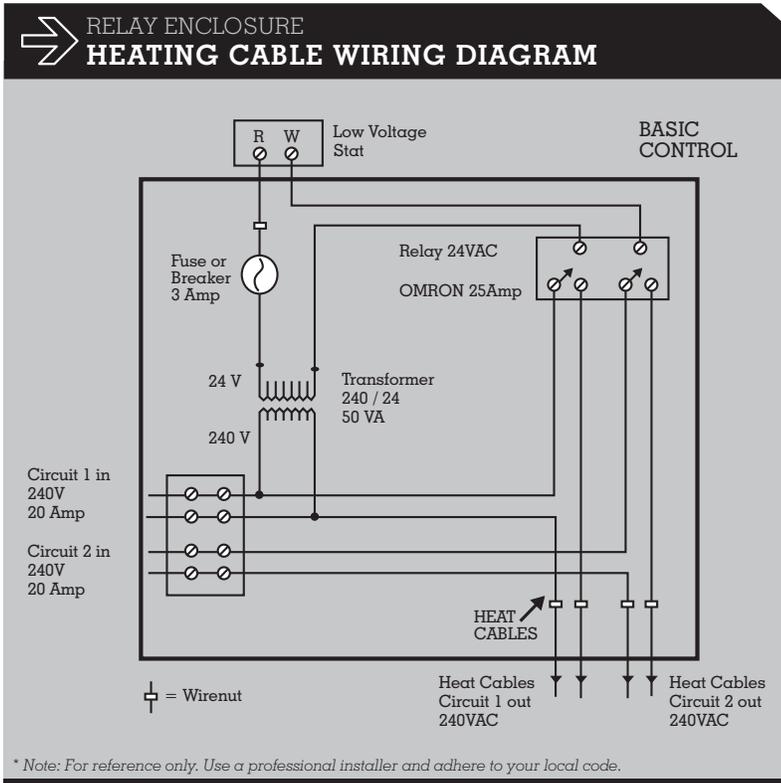


ter is insulated as well. There are various ways to insulate the perimeter, one of the best is by using a piece of 2" rigid insulation laid against the inside edge of the footing down to the insulation on the floor and cut at a 45 degree angle at the top. This method gives you a totally insulated system that prevents frost and cold from penetrating the foundation and reducing the efficiency of your storage system.

The Car Quest building in Hot Springs, SD has a thermal storage cable system with 13 watts per square foot. Black Hills Power limits the hours of operation to between 11:00 PM and 7:00 AM and 24 Hours a day on weekends and major holidays.

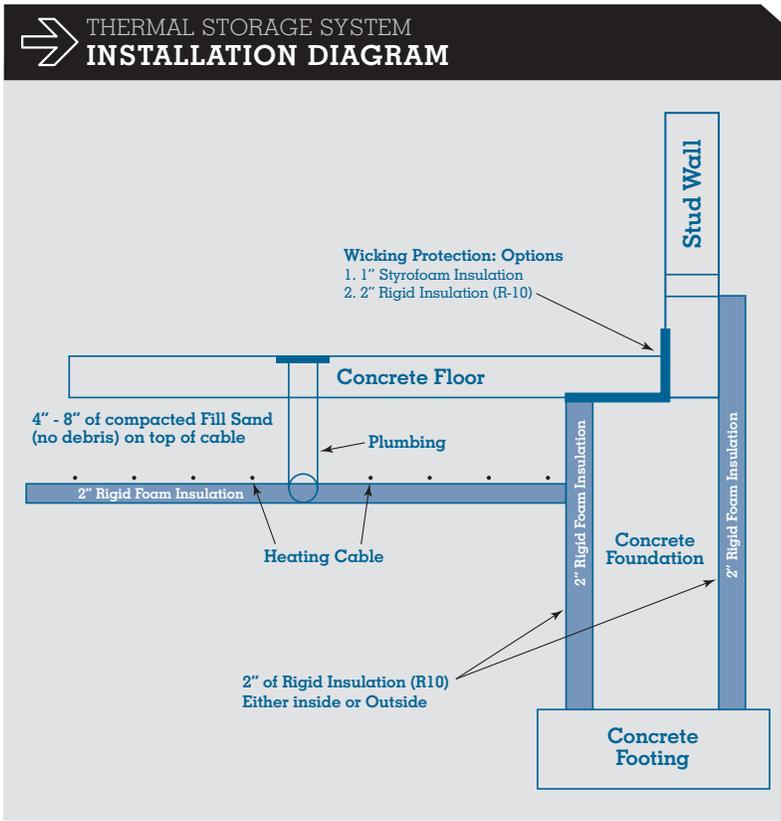


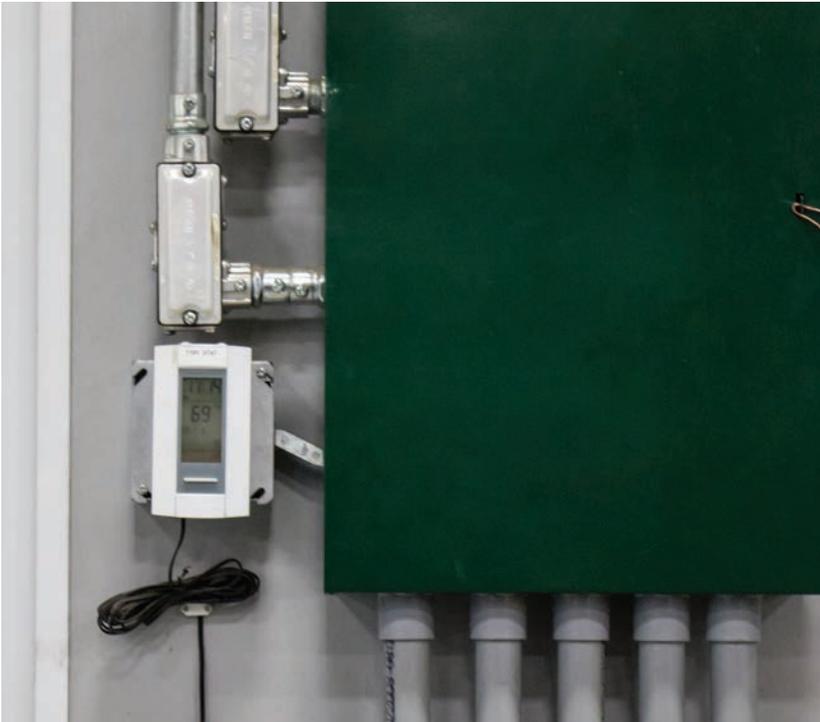
IN-FLOOR THERMAL STORAGE



This system handles 100% of the heating load, but saves over 70% on his heating costs. Warehouses, shop buildings, manufacturing facilities and many agricultural buildings will work great as thermal storage systems. Another good example of a system running on reduced hours with tremendous success is Pace Manufacturing in Brandon, SD. The Pace Building is a 90,000' manufacturing building. Pace Manufacturing wanted to utilize in-floor heat but their utility company has a commercial demand charge, which is quite expensive. There system was set up in zones from the outside of the building towards the center. The system was installed with a Brayden Automation load shedding device. When the system approached peak demand and higher utility charges the load shedding device starts to shed heating circuits. This allows the system to run at savings of up to 35%. This was made possible because of the thermal storage aspects of the heating system. Enough heat is able to be stored below the slab in the sand bed to allow circuits to be shut off for up to 16 hours at a time.

Radiant Supply Group has extensive history with designing these types of heating systems. We will determine the wattage you will need to work within your specific utility programs parameters. If you think this system might be an option for you and you would like to see what you will need just contact us. We would be happy to assist you with your next project. Don't overlook these unique money saving utility programs.





PRODUCTS



THERMAL STORAGE CABLE
9 watt per linear foot cable twin conductor cable. 240v standard, 480v special order. Output is 9 watts at 12" spacing, 12 watts at 9" and 7 watts at 15". Output reduced by 25% when operating at 208v.



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24v Coil Relay, 25 Amp, 240v. Generally need 1 relay per mat or cable use.



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EPS RIGID FOAM BOARD
Used as insulation under heating and snow melting systems. We recommend 2" minimum high density rigid insulation.



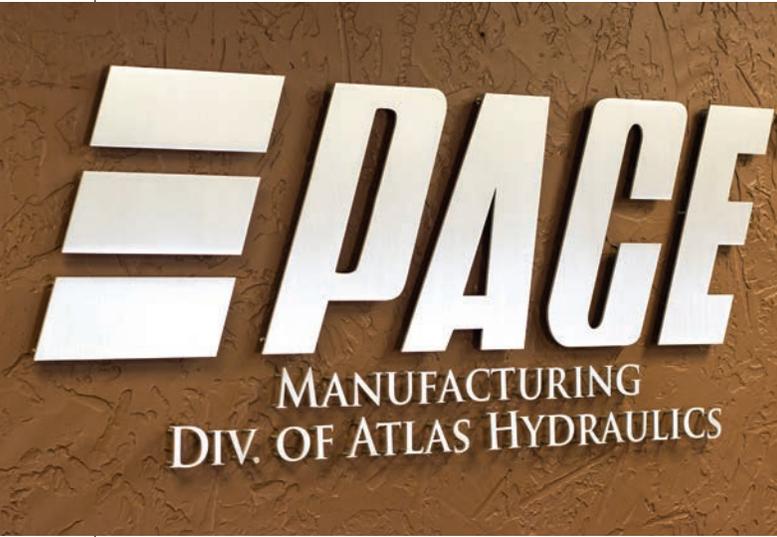
FOAM BOARD STAPLES
Staples designed for use with the foam board staple gun. They are used to secure heating cable to foam insulation boards.



FOAM BOARD STAPLER
Used to easily secure cable or mat to rigid foam board.



TESTIMONIAL



THE PROJECT

At Pace Manufacturing in Brandon, South Dakota, Chad Hasert selected Radiant Supply for the manufacturing facility. The construction of the 100,000 sq. ft. building happened in two phases, first in 2008 and then in 2010. Both phases included electric in-floor radiant heat.

“I looked at a bit of everything,” said Chad. “We considered traditional radiant tubes that you see hanging from the ceiling, to forced air, to in-floor radiant. We sat down and penciled everything out. In our minds, it made sense to go with electric radiant heat.

“It has given us a very clean facility, which was important to us. There is nothing hanging from the ceiling. It also provides a very quiet, comforting, warm environment. Cost was one of our considerations, but maintenance was also a factor. This system also recovers quickly, for example, if an overhead door is opened. The efficiency is also very important and we installed a software system to control the zoned heating.

“Overall we have been very pleased and I would absolutely recommend it to others. In fact, we will be putting on another addition and we will be working with Radiant Supply—they understand our needs.”



PACE MANUFACTURING

92,000 sq. ft. | Brandon, South Dakota

“ OVERALL WE HAVE BEEN VERY PLEASED AND I WOULD ABSOLUTELY RECOMMEND IT TO OTHERS. IN FACT, WE WILL BE PUTTING ON ANOTHER ADDITION AND WE WILL BE WORKING WITH RADIANT SUPPLY – **THEY UNDERSTAND OUR NEEDS.** ”

CHAD HASERT
PACE MANUFACTURING



ICE & SNOW MELT

Wesleyan Church, Mitchell, South Dakota.



NEVER SHOVEL AGAIN

Ice and Snow Melt eliminates manual snow removal.

RADIANT SUPPLY GROUP has a complete line of electric ice and snow melting cables and mats. These systems automate the task of removing ice and snow from sidewalks, driveways, patios and more. These cables work under concrete, asphalt and pavers. Combined with controls to sense temperature and moisture they virtually eliminate manual snow removal and keep your property safe

from the risk of slip and fall injuries. Imagine never having to shovel snow again or use harsh salt or chemicals to try and melt ice and snow!

Ice and Snow Melt systems run off of electrical resistance cables, using electric energy to generate heat. Electric systems require far less equipment to run, as there is no need to install a boiler, return manifolds, or circulating pumps; all you need is an electrical source and a controller.



BENEFITS

CONSTANT TEMP
THROUGHOUT
THE SLAB – NO
ICE DAMMING

FRACTION OF
THE INSTALL
COST VERSUS
HYDRONIC ICE
MELT OR SELF
REGULATING
CABLE

EASY TO INSTALL
AUTOMATED
CONTROL SYSTEM

THE PROJECT

In the summer of 2013, the Wesleyan Church in Mitchell, South Dakota was constructing a new addition to the church and sanctuary. Winters in South Dakota are cold, snowy and wet. This led to a concern for the patrons of the church as they used the building entrances for the many church activities.

We really wanted to make sure that we provided safe sidewalks and entrances for the many activities we have. And, of course, having the ice and snow melt system also reduced the maintenance for the high traffic areas. We have it installed at four entrances and it has worked very well, staying ahead of the snow and making the entrances much safer. I would use it again if I had the chance and would recommend it to others with high traffic areas.

ICE & SNOW MELT

Along with this, the system is quicker to respond and warm up, since it is electric based. Running costs will vary from location to location, depending on local energy rates, amount of snowfall, etc.

Cables are spaced at either 3" or 4" apart depending on the desired heating output. Generally when applied to 2" rigid foam board as recommended, 3" spacing will adequately melt snow and ice in most of the United States. In areas of extremely high snow load 4" spacing should be considered. Radiant Supply Group can help design a system for you to make sure it works effectively.

Mats come standard at 37.5 watts per square foot. The mats come in many different sizes to fit any application. Mats can also be special ordered in a 50 watt per square foot model to handle even the harshest

conditions.

All Ice and Snow Melt Systems should be installed with automated controls to sense when it is snowing and the temperature drops below 38° Fahrenheit. Automated controls are essential to a system that functions at peak performance. Two different types of controls are available. The size of the job and the budget will help determine which one is right for you. Air mounted controls mount above the slab and have a moisture sensor on the top to sense snow or freezing rain. They also come with a test switch. In-Slab sensors are more expensive, but do a better job of sensing blowing snow. We recommend in-slab sensors on larger jobs and areas where blowing snow may be a big concern.

We will be happy to assist you with any of your ice and snow melting needs. Just give us a call to tell us your situation and we will be happy to help design a system to meet your needs.





ICE & SNOW MELT:

IT DOESN'T JUST MELT ICE & SNOW, IT EVAPORATES IT.



ELECTRIC SNOW MELTING SYSTEMS are fast becoming popular in both residential and commercial applications. Unlike conventional snow melting techniques that can be expensive and time consuming, Electric Snow Melting Systems provide an immediate solution for snow melting and de-icing, enhancing safety and comfort, avoiding unpleasant accidents and as an added bonus increasing the value of the property.

RELIABLE, DURABLE & MAINTENANCE FREE

- Completely concealed with no moving elements
- No maintenance or repair costs
- Heating cables are durable and can withstand hard weather conditions

EASILY OPERATED & ENERGY EFFICIENT

- Controlled by a sensor that detects snow or ice
- Energy efficient control system

SAFE & SIMPLE TO USE

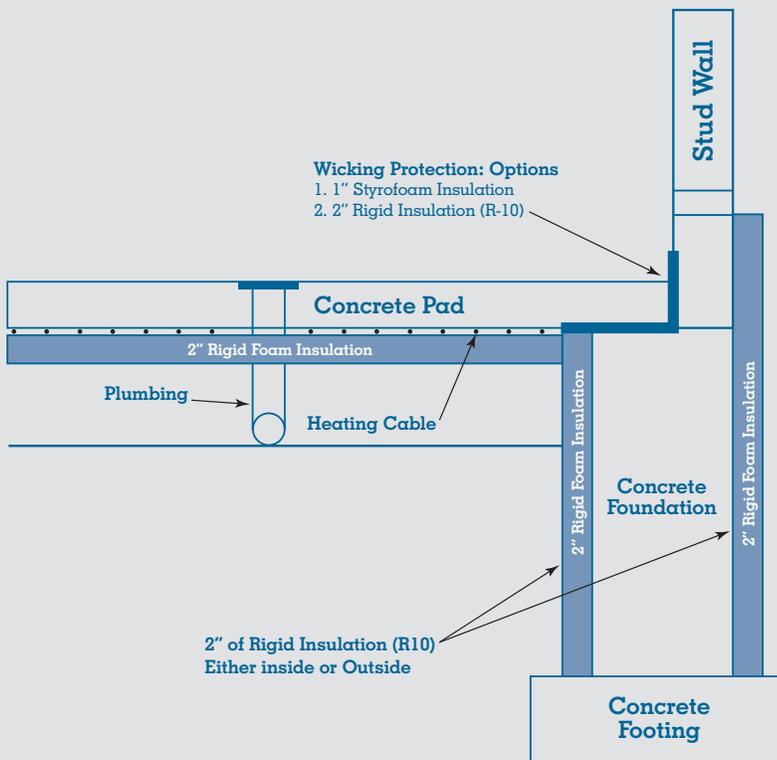
- Installs easily with an experienced contractor or electrician
- Installed correctly, the snow melting system will last a lifetime

PERFECT FOR:

- Sidewalks
- Driveways
- Parking Lots
- Residential & Commercial

NEVER HAVE TO SHOVEL AGAIN!

ICE & SNOW MELT INSTALLATION DIAGRAM



TESTIMONIAL

THE PROJECT

When Kelly Melius decided to expand his business and build a new manufacturing plant in Faulkton, South Dakota, he investigated several options for a heating system. His new facility includes 28,000 sq. ft. of shop area and an office area.

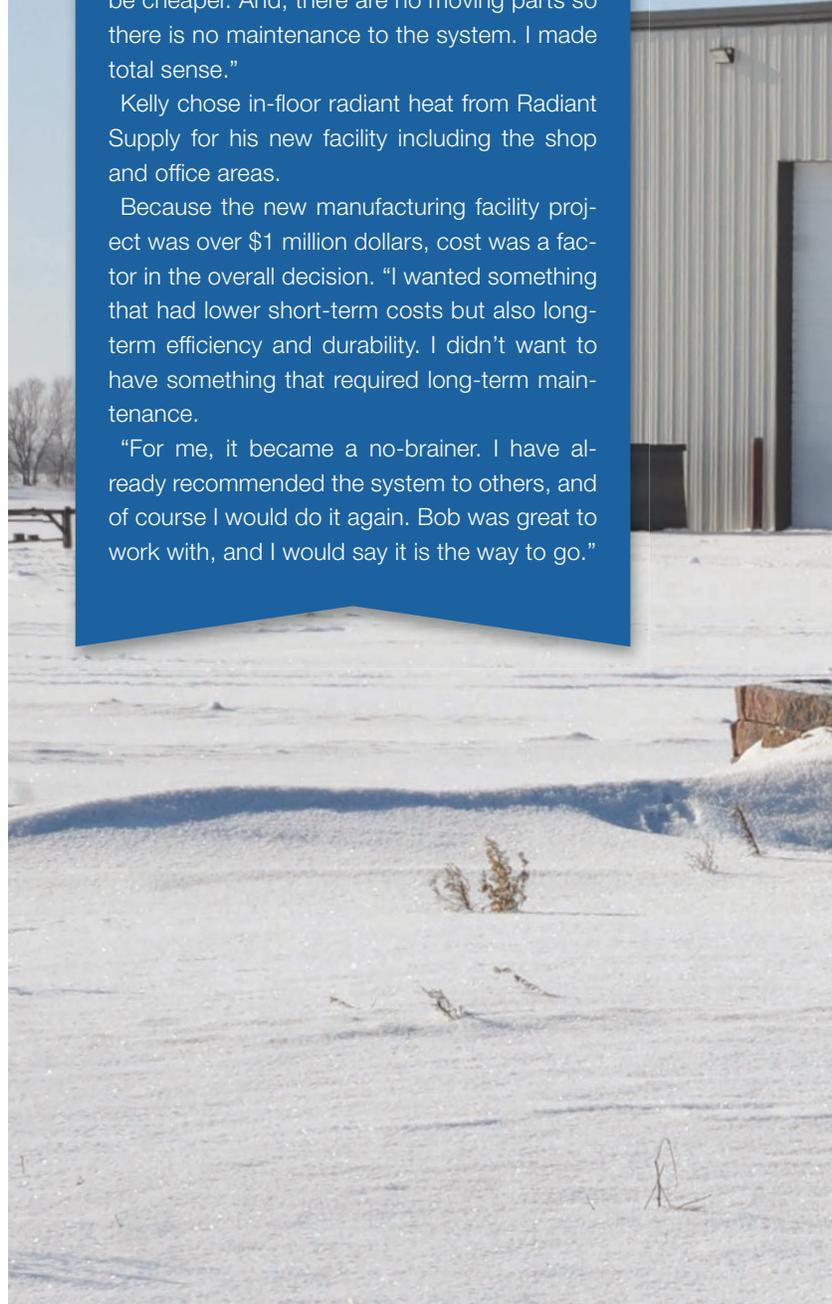
"I looked at a bigger propane forced-air unit to start with. And, several farmers around here have done geothermal, and I looked into that because it is something I have seen," said Kelly.

"Then, I met Bob and started looking at the radiant in-floor systems. It is simple and less expensive and it just started to make sense to me. I've had electric heat in my house for years, and I knew the installation alone would be cheaper. And, there are no moving parts so there is no maintenance to the system. I made total sense."

Kelly chose in-floor radiant heat from Radiant Supply for his new facility including the shop and office areas.

Because the new manufacturing facility project was over \$1 million dollars, cost was a factor in the overall decision. "I wanted something that had lower short-term costs but also long-term efficiency and durability. I didn't want to have something that required long-term maintenance.

"For me, it became a no-brainer. I have already recommended the system to others, and of course I would do it again. Bob was great to work with, and I would say it is the way to go."



COMMON SENSE MANUFACTURING

24,000 sq. ft. | Faulkton, South Dakota



“ FOR ME, IT BECAME **A NO-BRAINER.** I HAVE ALREADY RECOMMENDED THE SYSTEM TO OTHERS, AND OF COURSE I WOULD DO IT AGAIN. BOB WAS GREAT TO WORK WITH, AND I WOULD SAY IT IS THE WAY TO GO. ”

KELLY MELIUS
COMMON SENSE MANUFACTURING

PTAC UNITS



BENEFITS

GRILLES CAN
BE CUSTOM
COLORED TO
COMPLIMENT THE
BUILDING

COMES WITH
A WIRELESS
REMOTE

SUPERIOR INDOOR
NOISE REDUCTION

THESE UNITS are designed and manufactured for use in new construction or the replacement of PTAC units in existing buildings. The units offer easy to install solutions for heating and cooling in hotels, motels, schools, offices, senior housing, apartments and more. We offer only the highest quality cooling chassis with straight electric heat or heat pumps with back up electric heat. The design standards, heavy duty construction and focus on indoor noise reduction make our PTACs the premier units available anywhere.

Our standard accessories are wall

sleeves, architectural style grilles, custom painted architectural grilles, remote controls and wall thermostats.

Radiant Supply Group sells hundreds of these units every year in projects like the Baymont Inn and Suites in Rapid City, SD and the Grand Stay Hotel and Suites to name a few.

We would appreciate the opportunity to show you the advantage of making us your preferred PTAC supplier. Contact us to get a quote on your next project, you'll be happy you did. We strive to offer the best pricing in the USA on quality PTAC units.

THE EASY, EFFICIENT SOLUTION.



THE PROJECT

The new Grand Stay Hotel in Luverne, Minnesota broke ground in the fall of 2012 and held their grand opening in the spring of 2013. The hotel chose to install PTAC (Packaged Terminal Air Conditioner) units from Radiant Supply throughout the hotel.

The space includes 51 guest rooms, office, lobby and breakfast area. The units provide both heating and air conditioning.

According to Michelle Alfson, assistant manager, they have been very happy with the units. "They provide the efficiency we were looking for and have been budget-friendly whether it is in the heat of summer or cold of winter," said Michelle.

"We have several hotels and our management group has been quite satisfied.

"Radiant Supply has been very helpful in getting us started and answering our questions. And the units have provided the comfort for our guests that we want them to have. Chad and Bob have been awesome and I would definitely recommend these to others or use again in another building project."



PRODUCTS



PTAC UNIT

The units are designed and manufactured for new construction or the replacement of packaged terminal air conditioning units in an existing building. The product is designed for individually-zoned comfort controlled heating and cooling.



CUSTOM COLORED GRILLS

Architectural louver available in aluminum finish or custom color.



WALL SLEEVES

Standard insulated wall sleeve for easy installation.



TESTIMONIAL



THE PROJECT

For Matt Moeller, choosing in-floor heat was an easy decision. "My grandpa used to raise pigs and I have raised pigs all my life," he said. "I remember when I was little my grandpa had floor heating and his pigs would always do real well. Later, my uncle and I built a barn and we did forced heat. It just seemed to be damp and wet and the pigs didn't do as well. Electric heat is a dry heat and that is why I went with it."

Moeller operates a wean-to-finish operation with 4400 head in two 50' x 400' barns located near Miller, South Dakota. He believes that the electric system operates better than a water system. Because of the size of the barns, it would be difficult to pump the water that far while keeping it warm enough to heat the building.

"If I were doing another project, I would go with electric in-floor heat again. It is cheaper to operate. Heat naturally rises, so it is more efficient to just let it do its thing rather than trying to force warm air down. I would go with Bob at Radiant again because this has worked real well."



MATT MOELLER HOG FARM

Two 20,000 sq. ft. Buildings | Miller, South Dakota

“ IF I WERE DOING ANOTHER PROJECT, I WOULD GO WITH ELECTRIC IN-FLOOR HEAT AGAIN. **IT IS CHEAPER TO OPERATE.** ”

MATT MOELLER
MOELLER HOG FARMS



ELECTRIC RADIANT CEILING HEAT



HEAT YOUR ENTIRE HOME

EASY INSTALLATION, LOW COST AND A LIFETIME OF COMFORT.

BENEFITS

INDIVIDUAL
COMFORT

NON-ALLERGENIC
HEAT DELIVERY

LIFE-OF-BUILDING
LONGEVITY

MAINTENANCE
FREE OPERATION

LOW INITIAL AND
LIFE CYCLE COST

ELECTRIC RADIANT CEILING HEAT is perfect for any building, home or commercial, new or retrofit, for primary heat or supplemental heat. Installation is as easy as installing a light fixture. Heat is zone controlled so you stop paying for heat in unoccupied areas. The panels are available in various sizes, voltages and wattages. They can be flush mounted to the ceiling, recessed into the ceiling or dropped into a t-bar grid. Pick the finish to match your decor: sand, matte or glossy white.

Not only do they provide comfortable, sunlike warmth, but they are clean, quiet and never need maintenance. Since they do not circulate air like convective

systems, there is no dust, no odor nor any 'cold blow'. Users gain full use of floor space as the panels are ceiling-mounted. Heatmodules can be painted (latex-based paint) to match any décor. And, they are non-allergenic and non-drying!

Electric Radiant Ceiling Heat is a green product. Components are recyclable and have life-of building longevity. A case study by the Dept. of Energy and the National Homebuilders Assn. documented that with Electric Radiant Ceiling Heat "energy savings would be obtainable in a great portion of U.S. households".

AT HOME COMFORT EVERYWHERE.

CATHEDRALS, SPLIT LEVELS

Electric Radiant Ceiling Heat eliminates the cool draftiness associated with split level construction. Safe, infrared radiant energy travels through the air with the speed of light warming objects (including the floor) in its path, unlike convection (ie. forced air and baseboard) systems with which the hot air rises to the ceiling or up the stairs, as cooler, denser air replaces it, often making the floor area drafty and cooler.



BATHROOMS AND JACUZZIS

Warm floors, fog-free mirrors and full use of wall and floor space with quiet, sunlike radiant warmth – for only 8¢ an hour. Eliminate the noisy, drafty fancoil ceiling or wall heaters. Save \$2.00 - \$4.00 per hour on cold winter days when you want a comfortably heated bathroom, rather than overheating the entire house with a central furnace. A single 400 watt 24RP-4 Heatmodule will provide all the warmth and comfort needed to heat a typical 5'x7' or 6'x9' bathroom (small den or office). Retrofit installations are usually as easy as replacing the ceiling light with a unit, and the light switch with a thermostat.



THE BATHROOM CENTER

For complete comfort control of your bathroom, ask about the Bathroom Center, a combination unit that has an exhaust fan, light and nightlight centered within a Heatmodule. Attractive for new and retrofit construction, and eliminates costly ceiling trim work.

ELECTRIC RADIANT CEILING HEAT

BASEMENT HEAT

Heat your basement easily, comfortably and quietly while saving 30% to 50% on energy costs with Radiant Ceiling Panels.

Here's why Radiant Heat is the best heat for any basement:

- No duct work.
- No noise, no dust, no odors, no cold blow.
- Energy-efficient....uses only 3-5 watts per square foot. (Compare that to other systems!)
- Quick response time.
- Full use of floor space.

Ceiling mounted panels are perfect for areas where flooding is a problem...an excellent solution for basements or lower levels where code doesn't permit baseboard systems.

Not only do 'green' Heat Panels save energy but they are fully recyclable, have a low carbon footprint and, since the panels draw low wattage, they are ideal partners for wind and solar energy sources.

Installing Radiant Panels is simple. The heaters flush-mount to the ceiling. Or, for dropped ceilings, use the t-bar grid style



panels. All panels install as easily as a light fixture and are controlled by a wall thermostat.

Ceiling-mounted panels are 99% radiant which means less than a 1% heat loss compared to other systems with convective components such as baseboard heaters, wall heaters or floor heaters. Thermal heat transfer from

radiant ceiling panels is 99% efficient; heat transfer from wall or floor room heaters is only about 50% efficient and thereby results in about a 50% heat loss. The end result: more comfort and greater energy savings with Radiant Heat.

You can set your thermostat 5 degrees lower than you are used to and still be comfortable!



PORCHES & DECKS

Use of higher watt density Radiant Ceiling Heat can extend the season in special areas. Normally, greatest comfort benefit occurs in windless, draft-free applications where the ambient temperature is 60°F or above.

HOT YOGA STUDIOS

Radiant Heat is the heat of choice for hot yoga studios worldwide. The unique health benefits of far infrared long wave¹ radiance are appreciated in all types of hot yoga as well as dry personal and group saunas. Our environmental design is unique to meet the specifications of each hot room. Safe, economical, environmental conditions are met that provide uniform conditions on the mat, squat, sitting, or standing positions without draft, stirring of dust, pollens, or germs, noise, odor, or maintenance for the life of the building.

Radiant Heat is the only product identified by the US Department of Energy for documented energy and occupant thermal comfort performance. Their Case Study verified a 30% to 50% en-



ergy savings along with a significantly reduced comparative watt/BTU installed capacity.

Your hot yoga heating system is designed based upon information you provide about your particular studio and yoga practice. That means that wherever your studio is located, your long wave Radiant pattern is designed to your particular specifications.

UNDERDESK HEAT

COMFORT IN THE OFFICE.



BENEFITS

CLEAN, QUIET

SAFE TO TOUCH

SAVES SPACE

LOW ENERGY
COST

UNDERDESK HEATERS

The best personal space heating solution for your office or home. Underdesk Heaters provide the only energy-efficient solution for cold workspaces. The only personal heating solution that is clean, silent and safe-to-touch and the only personal space heater that takes up no floor space. The green Underdesk Heater is 100% UL listed.

Unlike other electric space heaters that run on 1600 watts or more, Underdesk Heaters will use only 100-200 watts per hour while providing you with all the personal comfort you need. The lower wattage means an energy savings of greater than 80% over these other high wattage floor heaters. Because of the lower wattage, our Underdesk Heaters will not electronically interfere with computers or overload circuits. Perfect for offices and computer workstations.

CLEAN, QUIET & SAFE TO TOUCH

Underdesk Panels are designed to distribute heat over the entire surface of the panel, so you enjoy comfortable, even

warmth.

Safe to touch, there are no hot grill covers or danger of burns...just soft, cozy heat. The solid state panel construction means no moving parts, so the heater is completely silent and dust-free.

GREAT SPACE SAVERS

Only 1" thick, the Underdesk heaters can be positioned easily and safely in virtually any location. Affix to the modesty panel of any desk or workstation or, affix next to the wall of your favorite easy chair. If you prefer a free-standing unit, order a solid oak stand to accompany your heater.

SAVE ON YOUR ENERGY COSTS

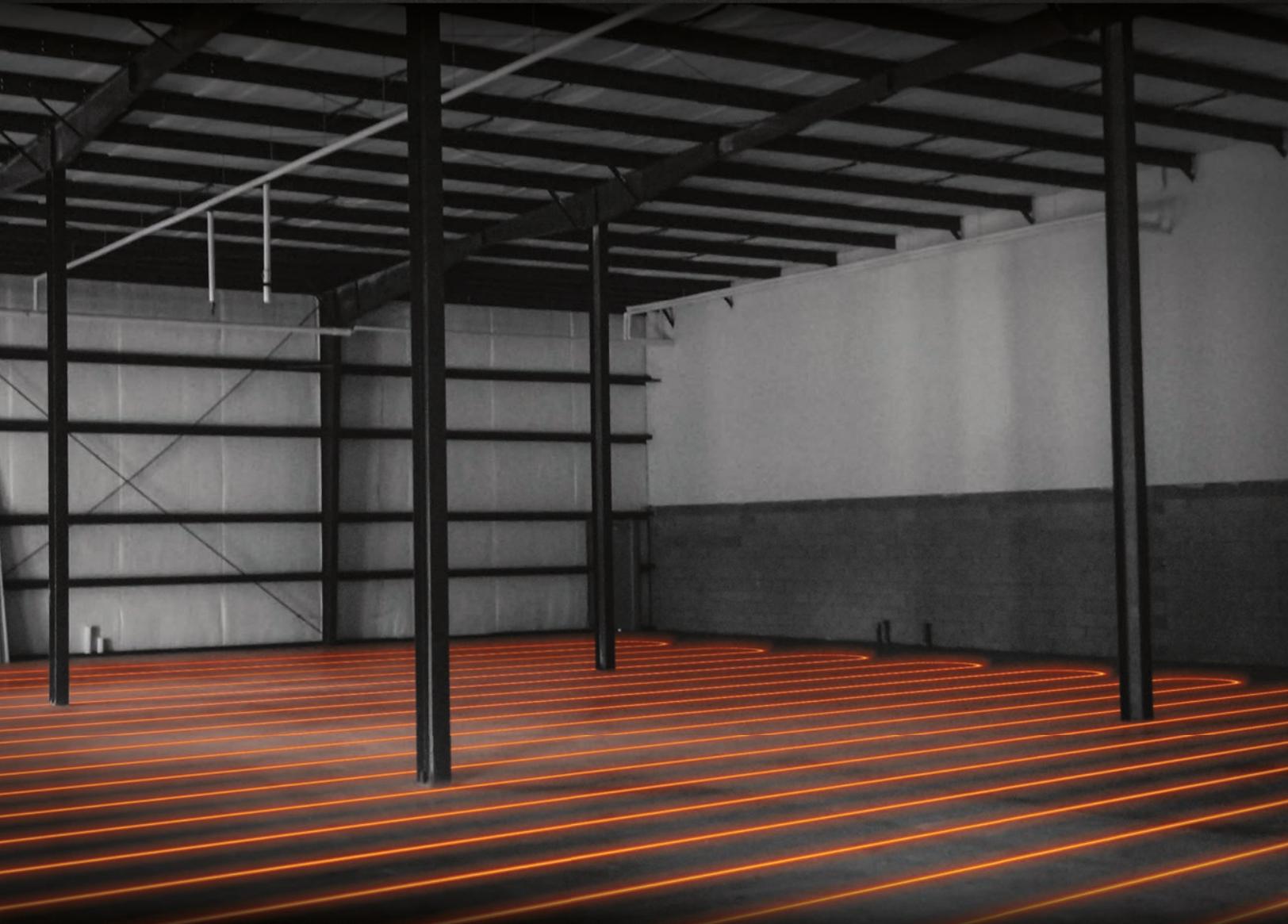
Radiant personal space warmers are rated at 100 watts, producing 341 BTU at 120 volts a/c or d/c. The average daily operating cost at the national average per kilowatt hour electric cost of \$.08 per hour is less than 8¢. This compares with the average floor space heater which

costs almost \$1.00 per day. Underdesk personal space warmers are safe, silent, dustless, odorless, out of harm's way, and provide comfort where needed.

Lightweight, quick response Underdesk Heating panels for supplemental heating,



may be installed as simply as an electric desk lamp, The low mass, insulated design provides direct source-to-object radiant warmth - ideal for placing under desks and work stations. Flexibility in panel placement offers easy adaptability to temporary change in area arrangement or permanent change of floor plan.



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