

Hydronic Radiant Heat

BDR
ConEx
Construction & Excavating

**Commercial & Residential
Geothermal & Radiant Heating**

www.bdrconex.com

Radiant Floor Heat Safe, Clean, Convenient, Affordable

HEALTH AND COMFORT

Radiant heat means silent, draftless, controlled heat in every part of your house. It means the end to chilly areas, the floors are warm for playing children, and you can say good-bye to icy toes and "dull-headache fumes". No irritating dust is blown through the air by a radiant heat system. Correctly designed and engineered, radiant heat will eliminate damp, musty closets, and moisture condensation on walls and windows more successfully than any other heating system.

SAFETY

Radiant heat reduces the dangers of gas and fire. There are no hazardous open grilles, dangerous burners, or hot radiators. Your children, guests, pets, furniture and rugs are safe from harm, because no direct physical contact with your radiant heating system is possible.

SMART, UP-TO-DATE APPEARANCE

Radiant heat of the type discussed here is completely invisible. No slotted baseboards, moldings, panels, or other visible equipment. The smart appearance of your house cannot be spoiled by worn-out, dated heating equipment. Decoration can be planned with complete freedom. Furniture arrangement can ignore the heating system -- a big advantage when living space is so precious. Radiant heat is clean: draperies and painted surfaces stay bright and fresh because radiant heat carries no grimy fumes and dust to soil them. With systems that heat the air, cold surfaces such as walls and floors attract grime and dust more readily.

In fact, consumer surveys reveal that radiant heat is replacing older types of heating so rapidly that the house which does not offer its comfort and modern convenience may soon be seriously outdated. Within the next 10 years, it has been estimated that 40% of all new homes built will be heated by radiant heat.

FINANCIAL WELFARE

Radiant heat cost less per unit of heat than any other type of heating. Conventional systems allow the heat to collect where its most likely to escape -- at the ceiling and along the walls. Because the temperature with radiant heat in each room remains relatively constant, heat loss can be reduced by up to 25%. Whether your house is traditional, or modern in design with large glass areas, radiant heat is the most economical method for heating every foot of your home because it can reduce the home energy needs up to 50% over conventional heating systems when properly designed and installed. Operating temperatures are so moderate that the tested, sturdy equipment lasts almost indefinitely. Thus, a house heated with radiant heat, retains its resale value.





SNOW MELT

Radiant tubing with antifreeze is a proven strategy for making surfaces dry and safe, even in extreme climates.

No more shovelling driveways or salting walkways. You can now relax in the comfort of your home or office with the Geo-Loop Snow Melt System taking the worry out of your day, enabling you to focus on things that are more important. It's automatic response system melts the snow as it falls on driveways, parking lots, and walkways giving you more time to enjoy the winter months.

Snowmelting is especially useful under textured or colored concrete, brick, or stone, where snow-removal equipment may damage the surface. your stamped concrete or interlock driveways are protected from ruin caused by shovelling, salt, and standing snow and ice. The protection will lengthen the life of driveways and lower the frequency of their maintenance in the future.

From very large commercial projects to home sidewalks, snowmelting will help protect clients, friends, and visitors from an accidental fall or unnecessary physical strain.

How it works

We at BDR ConEx take pride in the quality of our work. Your snow melt system will be designed and installed by our team of professionals which includes Candian Geoexchange Coalition Certified Contractors.

Outdoor sensors determine when there is snow starting to come down and a signal is sent to the Control Board to increase the system temperature. The heated glycol mixture is pumped through the installed radiant pipe loop configuration, delivering heat to the desired snow melt areas. The cooled liquid is returned back to the system to be re-circulated. This operation continues until all snow and ice have been melted clean.

Automatic modes

In Fully automatic mode, the surface under which the pipe is laid is kept at a slightly warmer temperature for quicker response to melting snow and ice. In the Semi-Automatic mode, the system is completely turned off and automatically starts when a signal from the outdoor sensors indicates snowfall.



Types of driveways

The BDR ConEx Snow Melt System can be installed in any construction material including: asphalt, block paving, brick, cobble stone, concrete pavers, concrete overlay, interlock, pebble stone, stamped concrete, gravel and other style of construction material

Every slab floor is a cold floor unless you have radiant heat.

New Construction

For new construction or renovation, Radiant tubing loops can be easily installed before the floors are poured. Your floor level will not be affected and you can use any type of finished floor.

Existing Structures Retrofit

Depending on the access or overall layout of your home or building, the Radiant tubing can be installed either above frame floors or below Radiant components integrated into your floor structure are a simple, practical and efficient way to heat the living space above.

Equipment

Geo-Loop Radiant works with the best radiant equipment in North America. If you want a hydronic radiant floor, ask for a HydroControl® or HydroNex® Panel. The pumps, valves, fittings, and most of the electrical components are engineered and assembled for your project on a panel that arrives on your jobsite, ready for installation.

T H E R a d i a n t P E X A D V A N T A G E
Cross-linked RadiantPEX is tough, flexible, long-lasting, and maintenance-free. RadiantPEX is easy to transport, won't corrode, and withstands continuous temperatures to 180°F. RadiantPEX is a three-layer pipe with an EVOH oxygen barrier protecting ferrous system components against oxidation.



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