

NOVITHERM™

Boost your heating system's effectiveness

Low Cost Fast Payback Easy to install Easy to Use

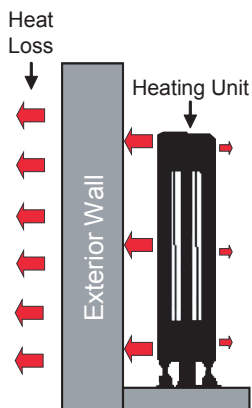


The aluminized surface reflects over 90% of the infra-red heat, normally absorbed by the wall behind the heating units, back into the room. This immediately improves comfort levels and reduces your heating requirements by at least ten percent.*

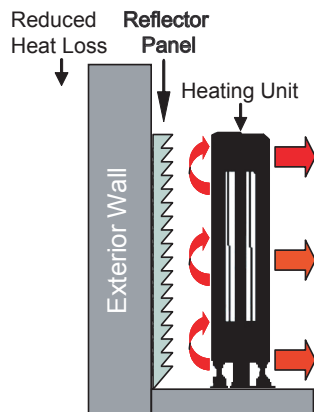
How do the Reflector Panels work?

- The metallic surface on the reflector panel reflects heat back into the room. This immediately improves heating efficiency.
- The "pockets" on the back of the panel trap air, which prevents heat from escaping the outer wall.
- The ribbed profile increases hot air circulation thus improving the overall room comfort.
- With the reflector panel, the core of your radiator is kept hotter - therefore returning the water inside the system to the boiler at a higher temperature. This reduces the amount of energy required to re-heat the water.

Without Heat Reflector



With Heat Reflector



Radiation heat loss reduced by 90%.

The Novitherm™ Reflector Panels yield instant results.

Novitherm™ reflector panels are an easy and cost effective method for reducing your heating bills by at least 10%.* The panels are quickly and easily attached to the wall behind your radiators out of sight and start working immediately to reduce energy loss. The panels effectively improve convection behind your radiators, accelerating the air flow and directing it away from the wall, where it is usually lost, back into the room allowing the elimination of cold spots and improving overall room comfort.

They also increase return water temperatures so that the boiler fires less often and for shorter periods saving even more money and reducing carbon dioxide emissions at the same time.



**Designed for use with
hot water or
steam radiators.**



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Novitherm™ Heat Reflectors – Technical Information

The Heat Reflector is made of clear PVC with an aluminized surface. The Heat Reflector is molded and given a ribbed profile that creates an insulating space when affixed to a flat surface.

The Heat Reflectors are strong and durable and will not be damaged by normal handling.

Sheet Size

To best accommodate ease of installation and the variety of heating units, Heat Reflector sheets are 34.5" (87.6 cm) wide and come in manufactured heights of 8", 12" and 20" (20.3 cm, 30.4 cm, 50.8 cm).

Durability

Except where subjected to long-term, direct exposure to ultraviolet light, the Heat Reflectors have an indefinite life span. The aluminized coating should not be exposed to water.

Fire Resistance

The Heat Reflectors have been tested for smoke and flame spread by the Underwriters Laboratory of Canada (ULC) and rated in accordance with the following standards:

CAN/ULC-S102M (flame @ 30; smoke @ 60 to 85)

ASTM E84 (flame @ 15 to 40; smoke @ 105 to 135)

Toxicity

When tested in accordance with draft EEC Document EN71, the Heat Reflectors were found to be safe to use where they would be accessible to children.

Emissivity

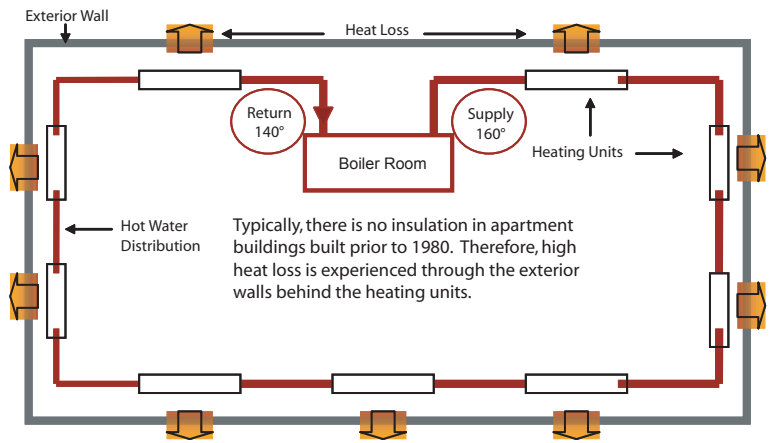
Heat Reflectors are opaque to thermal radiation with a thermal reflectance of 90% to 92%.

Adhesive

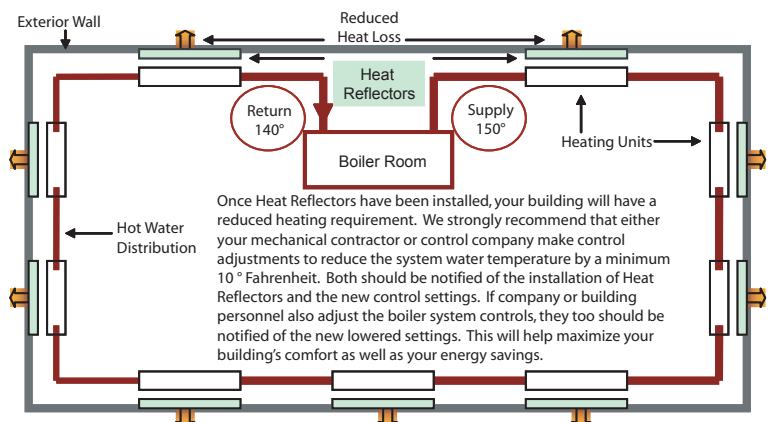
A double sided; pressure sensitive, acrylic tape is provided for installation.

*Independent testing performed by Centre des technologies du gaz naturel (CTGN), 2004/5

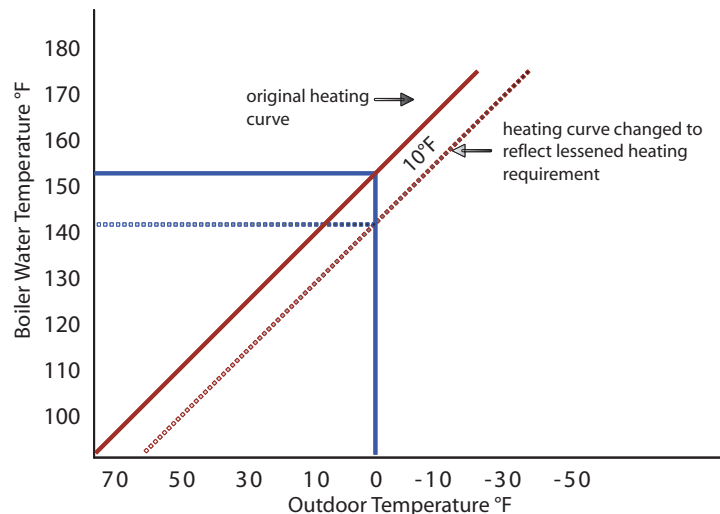
Heating System without Novitherm™ Heat Reflectors



Heating System with Novitherm™ Heat Reflectors



Novitherm™ Heat Reflectors - Boiler Control



Once Novitherm™ Heat Reflectors have been installed, your building will have a reduced heating requirement.