



warmth.nz  
underfloor heating

WHAT WE TALK ABOUT  
WHEN WE TALK ABOUT  
UNDERFLOOR HEATING

# Underfloor heating for dummies

## (1) Why is underfloor heating even better than anything else?

Underfloor heating is similar to a giant sandwich toaster. You can't see the warmth, but you can feel it. And the warmth in the floor radiates out to everything; furniture - walls - curtains - windows.

This is why air heating never feels quite right. Whether it is a high wall heat pump or a ducted central system. The air may be warm, but the floor will remain cool or even cold. True comfort in a home can only be achieved with a warm floor, and a floor can only be warmed from within.

Hot air rises. Hot air from a heat pump does a great job of heating the ceiling.

But, heating a floor? Forget it. Polished concrete is the worst culprit.

For true comfort in a home, warm your feet and keep a cool head.

## (2) What is warm water underfloor heating?

The time for wired electric underfloor heating has passed. It is four times more expensive to run. This has made it the most expensive way for heating. Many turn it off these days. But, fortunately heat pump hot water has become the least expensive of all.

This floor warming process is very straightforward when a new house is built. Underfloor water pipes are put into the floor before the concrete is poured.

At the end of the build, everything is filled with water - the heat pump heats the water which is circulated through the pipes, which heats the concrete. There is only one way for the energy to escape the slab, that is into the house.

Whatever the future may hold in terms of heating technology, flowing warm water through your floor slab will not be beaten.

## (3) Why choose air to water heat pumps as the heat source?

Using a heat pump results in using about a quarter of normal electric heating costs. These costs can be lowered even further by using solar PV or night rates.

All the SPRSUN heat pumps we supply feature brands like Copeland Scroll, Mitsubishi, and Panasonic.

Your underfloor heating could be powered in various ways, however all other heat sources, diesel, gas, wood, or wood pellets tend to have problems. They tend to be more inconvenient, or cost more to install, or cost more to run, and can be environmentally unfriendly.

However you look at it, underfloor heating using a heat pump is usually by far the best way to heat your new house.

