



## Pioneer Floor Heating: Hydronic Underfloor Heating

Underfloor heating

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**SAVE ENERGY IN STYLE**  
HYDRONIC UNDERFLOOR HEATING

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## SAVE ENERGY IN STYLE

### HYDRONIC UNDERFLOOR HEATING



# HYDRONIC UNDERFLOOR HEATING

EXPLORE THE POTENTIAL



## SILENT COMFORT

- Hydronic underfloor heating evenly distributes warmth throughout the floor area, resulting in a pleasant "warm feet, cool head" effect.
- Like the sun on a winter's day, hydronic underfloor heating warms the room via a high level of radiant heat, avoiding the dryness usually associated with high-intensity heating systems installed within the building structure.
- A closed system of underfloor water pipes means no noisy space heaters or blowing air.

Increase  
office  
productivity



## SAVE ENERGY AND THE ENVIRONMENT

- Save up to 30% in home heating energy usage.
- By warming your house or building from the floor up you can lower the comfortable room temperature set point by 1°C to 2°C, thereby reducing the energy input required.
- Low energy intensity and efficient transfer of heating energy ensure hydronic underfloor heating is one of the lowest carbon footprint technologies available.

Up to 30%  
energy  
saving\*



## HYGIENIC, SAFE & EASY TO MAINTAIN

- Warm and dry floors inhibit the growth of house dust mites. Combine that with almost zero air movement, hydronic underfloor heating provides significant health benefits, in particular for sufferers of allergies and asthma.
- No chance of injuries caused by radiator panels, the perfect solution for schools, nursing homes, hospitals, and similar public buildings.
- With almost zero mechanical equipment and simple one-step room temperature control, hydronic underfloor heating is easy to operate and even easier to maintain.

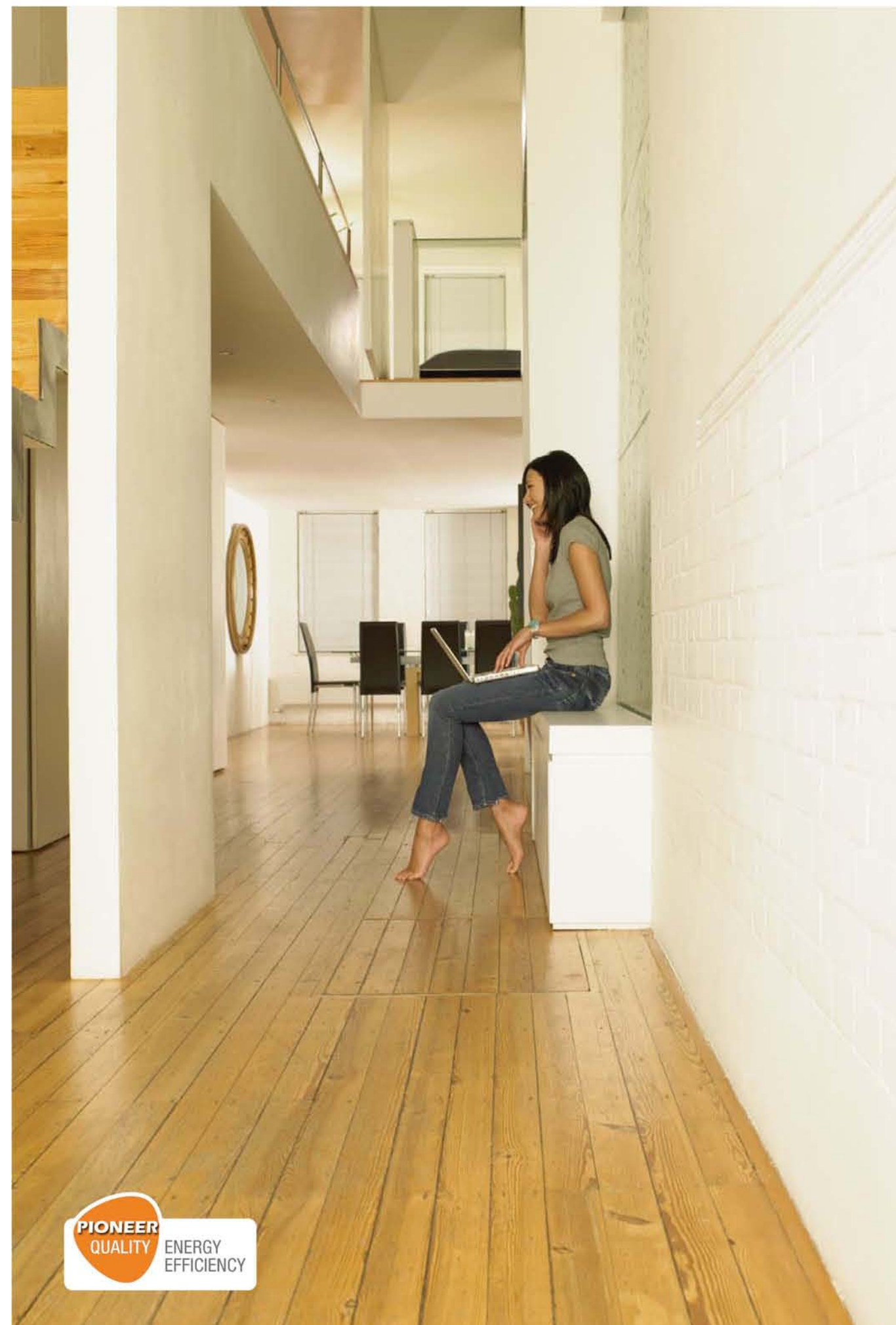
Reduce risk  
of asthma  
and allergy



## FREEDOM AND FLEXIBILITY OF DESIGN

- Because the heating system is totally hidden, there are no air ducts or protruding heating units to hinder design considerations.
- Enclosed within the building slab and operable by remote controls, hydronic underfloor heating provides a tamper-proof and 100% secure heating solution.
- The floor is a large heat emitter so only 'warm' water (heated to 35°C to 45°C) is required. This opens the possibility of using renewable energy sources such as solar and geothermal, as well as conventional sources like gas.

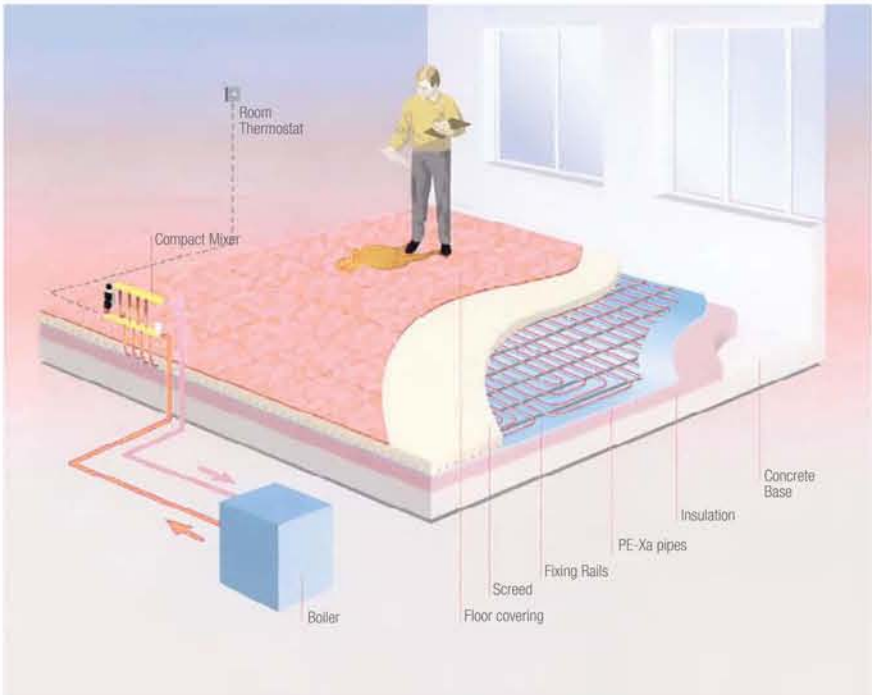
Complete  
freedom in  
space design





# HYDRONIC UNDERFLOOR HEATING

EFFICIENT. SAFE. STYLISH AND COMFORTABLE.



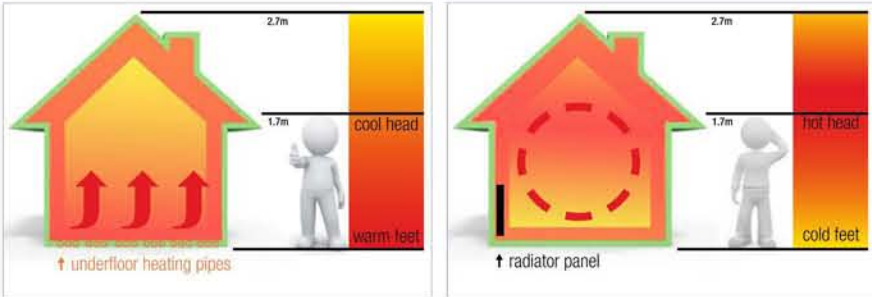
### What is Hydronic Underfloor Heating?

Hydronic Underfloor Heating works by circulating warm water through a closed network of pipes laid in the floor, gently spreading heat throughout the house. As it is a closed system, water is re-used once commissioned and does not need to be refilled. The water can be heated by almost every energy source, e.g. conventional gas boilers or renewable energy sources such as solar.

In combination with a renewable energy source, **this system requires only a minimum of electricity and is therefore most environmentally friendly.**

### Why choose an Underfloor Heating System?

Because it uses the highest proportion of radiant heat transfer, underfloor heating is the most efficient of all residential heating systems. Temperature variations can occur when using air-conditioning or traditional radiators due to uneven coverage. Underfloor heating eliminates this problem with even heat distribution throughout the entire floor area.



Underfloor heating is the closest to an ideal heating system

Radiator heating

By using a closed water circuit to warm your house or project, Pioneer Hydronic Underfloor Heating can offer comfort and environmental benefits.



**Underfloor heating is environmentally friendly**

The underfloor heating system provides close to an ideal temperature curve – “warm feet and cool head”, whereas the radiator system supplies the heat in the form of a wave, resulting in uncomfortable “hot head and cold feet”.

# PIONEER

QUALITY YOU CAN TRUST



### A SOLUTION FOR EVERY INSTALLATION

Whether a new build or refurbishment, PIONEER offers an installation system that suits your project and most floor cover types, including polished concrete, timber floors, carpet, tiles and more.



### PIONEER QUALITY – PIPING THAT LASTS

- Million metres of PIONEER'S pipe have proven its quality during installations across the globe in the last 30 years.
- Completed by the permanent leak-proof compression sleeve jointing technology, PIONEER'S piping system with EVOH oxygen barrier provides a no-worry installation, each and every time.

**10 years warranty\***



### MAXIMISE PERFORMANCE WITH THE OPTIMAL CONTROL

The Room Thermostat ADR-UFH features an integrated timer which can be programmed to run at any time and offers the option to heat with off-peak energy.

Tailored for every budget, PIONEER'S Room Thermostats are specifically designed for Hydronic Underfloor Heating. Control each room separately or simply have one thermostat for all.

**Specially designed for underfloor heating**



### CHOOSE YOUR ENERGY SOURCE

For advice or guidance about selecting the right energy source, contact our Technical Service team or your local sales office.





More than  
30 years  
of experience

30 YEARS OF EXPERIENCE AT YOUR DOORSTEP

Together with our supplier we have 30 years of experience with Hydronic Underfloor Heating through out the world and is now bringing it's expertise and superb technology to Australia and New Zealand.

RESIDENTIAL



Family homes



Conservatories



Apartments

COMMERCIAL



Casinos, hotels



Age care facilities and hospitals



Schools, universities

INDUSTRIAL



Car dealerships



Cold Stores



Airports

SERVICES

AUTHORISED INSTALLER NETWORK



COMPREHENSIVE TRAINING & ASSISTANCE -  
NEW TECHNOLOGY, OLD HANDS!

The quality of our system is only as good as its design, installation and operation. With this in mind, PIONEER has established a network of Authorised Installers across the region. Each member has been intensively trained and has access to the complete design and project service.

100% assurance:  
PIONEER authorised  
installer network



PROJECT DESIGN SUPPORT

Whether your project is a family home or a 40-storey high rise development, PIONEER is your design partner. Our central design office and experienced engineers can provide advise regarding energy sources, hydraulic consideration, pipe layout, floor structure and much more.

Submit your project details (description or CAD drawing) to our central design office. We can provide a detailed design to take your project from concept to installation and commissioning.



YOUR PERFECT LONG-TERM PARTNER

We offer you the strength of a world-leading brand of polymer-based solutions. One that is backed by **outstanding innovations, the most modern manufacturing technologies and flexible logistics**. You'll find in PIONEER a future-oriented and reliable partner with a width and depth of expertise second to none.