



## SAVE ENERGY IN STYLE

HYDRONIC UNDERFLOOR HEATING BY REHAU

# 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

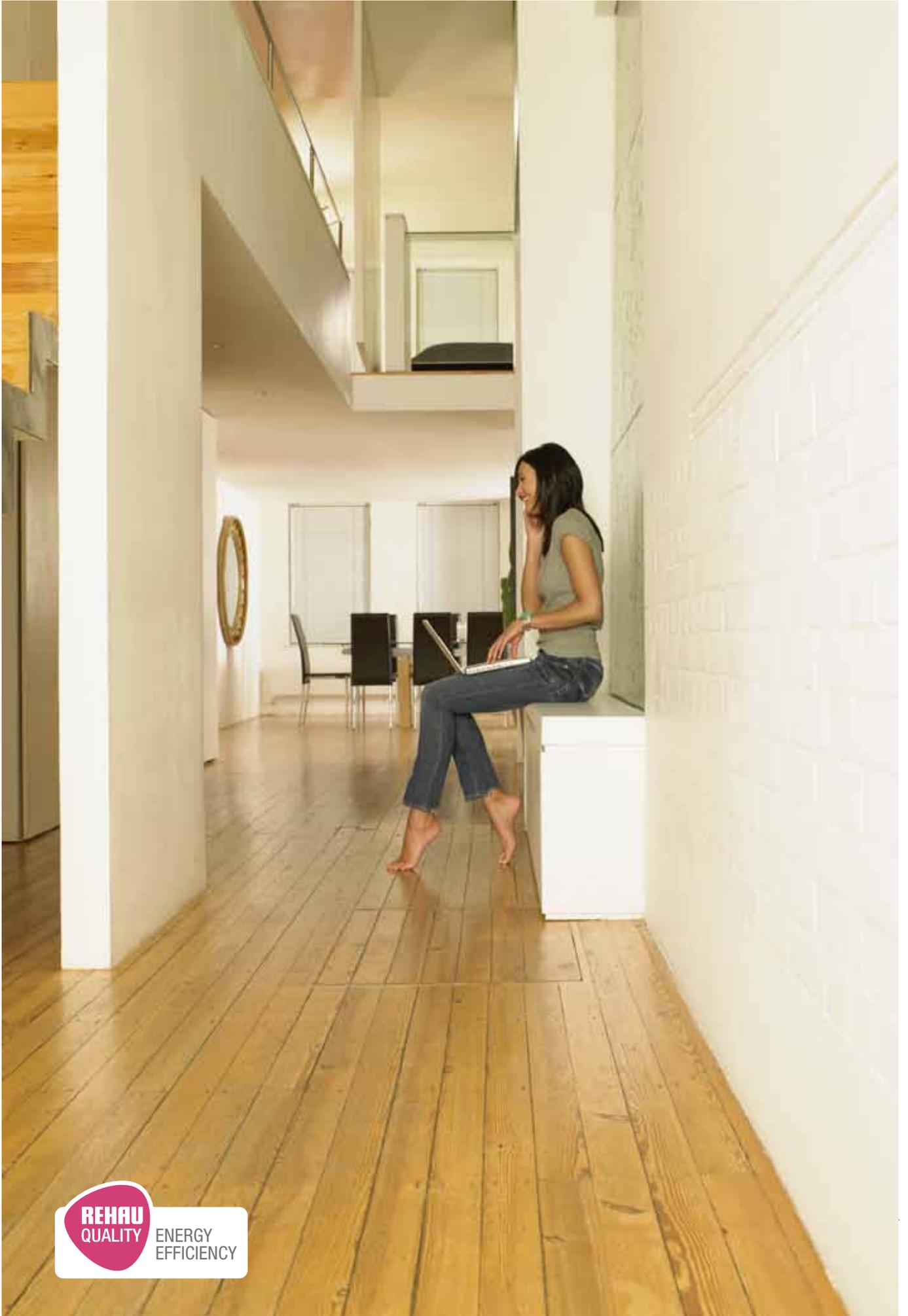
- Because the heating system is totally hidden, there are no air ducts or protruding heating units to hinder design considerations.
- Enclosed within the building slab and operable by remote controls, hydronic underfloor heating provides a tamper-proof and 100% secure heating solution.
- The floor is 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

WARM  
FEET  
COOL  
HEAD

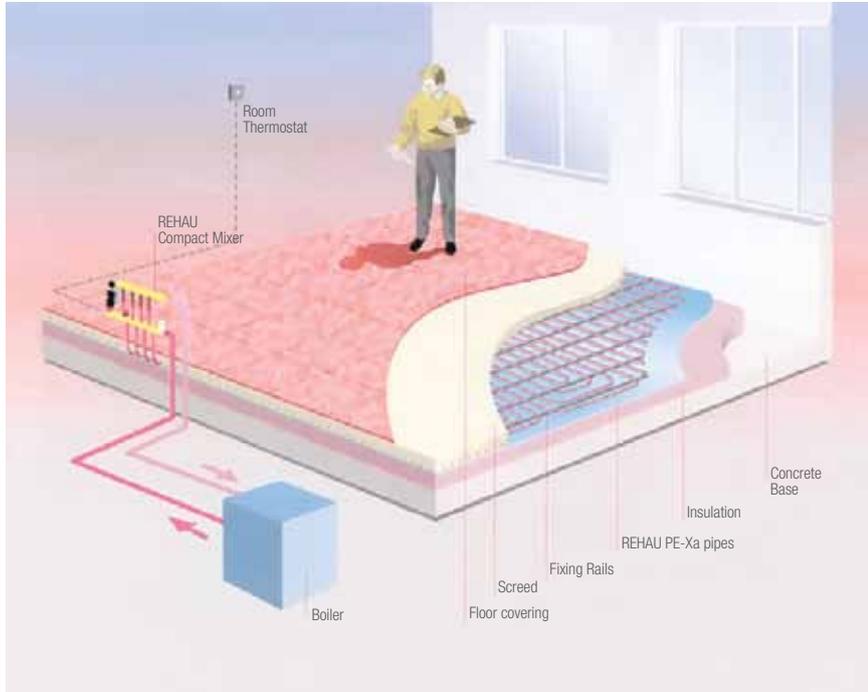
INHIBIT  
DUST  
MITES

\*Source: Sustainable Energy Authority VIC



# HYDRONIC UNDERFLOOR HEATING

EFFICIENT. SAFE. STYLISH AND COMFORTABLE.



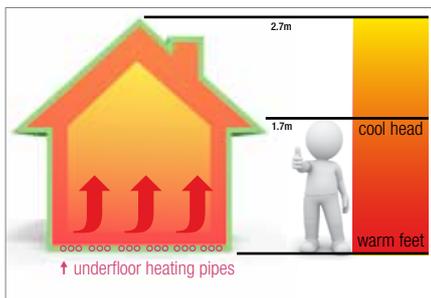
## What is Hydronic Underfloor Heating?

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.

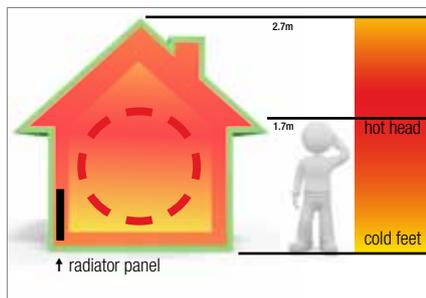
In combination with a renewable energy source, **this system requires only a minimum of electricity and is therefore most environmentally friendly.**

## 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, REHAU 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”.

# REHAU

QUALITY YOU CAN TRUST



## A SOLUTION FOR EVERY INSTALLATION

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



## REHAU QUALITY – PIPING THAT LASTS

- Tested for over 30 years against the toughest construction site conditions across the globe, REHAU's world renowned PE-Xa (cross linked polyethylene) RAUTITAN piping system is the toughest pipe on the market.
- Completed by the permanent leak-proof compression sleeve jointing technology, REHAU RAUTITAN pink piping system with EVOH oxygen barrier provides a no-worry installation, each and every time.

25 years warranty\*



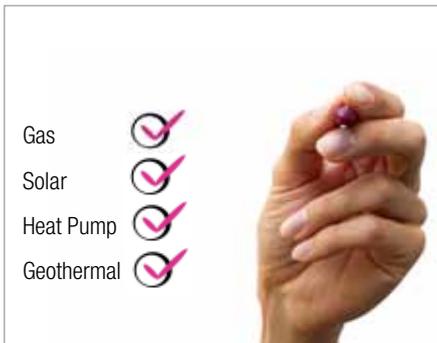
RAUMATIC M control system

## MAXIMISE PERFORMANCE WITH THE OPTIMAL CONTROL

The Room Thermostat Control 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, REHAU's RAUMATIC M control system is specifically designed for Hydronic Underfloor Heating and offers three types of room thermostats. Control each room separately or simply have one thermostat for all.

Specially designed for underfloor heating



## CHOOSE YOUR ENERGY SOURCE

REHAU gives you the freedom to choose your energy source. If you have an existing gas boiler or plan to install solar panels, a heat pump or utilise geothermal energy, REHAU Hydronic Underfloor Heating system is compatible.

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

SUITS MOST FLOOR COVERS

\* Conditions apply

# REHAU

## PROVEN QUALITY



### GERMAN ENGINEERING AND KNOW-HOW

REHAU is a leading world brand, recognised for Quality, Innovation and Service. Founded in 1948, REHAU enjoys an impeccable reputation across the globe for developing innovative solutions covering a broad spectrum of products and services to the Construction, Automotive and Industrial sectors.

As an independent, privately-owned company, REHAU has achieved continuous growth. With 15,000 motivated employees

at 170 locations around the world, REHAU transforms our customers' most stringent requirements into products and services that exceed expectations everyday.

More than  
30 years  
of experience

### 30 YEARS OF EXPERIENCE AT YOUR DOORSTEP

REHAU has 30 years experience with Hydronic Underfloor Heating throughout the world and is now bringing its 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



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