



UNDERFLOOR HEATING

GIACOMINI S.P.A.
ITALY



GIACOMINI SALES (U.K) LTD
UK



GIACOMINI

DESIGNED FOR GROWTH

It is no coincidence that Giacomini S.p.A. is acknowledged as much for its flair in design as its growth as to a world leader, especially in the brass product sector with ranges of Lever ball, Gate and Radiator Valves being prime examples. From just one small unit, founded in 1951 by Alberto Giacomini on the Western side of Lake Orta, the company has expanded to multiple factories producing a wide range of products in metal and plastic.

Brass production is shared between two Giacomini factories, at Castelnovo del Garda for hot forging and in San Maurizio d'Opaglio, the headquarters for all manufacturing, assembling, testing, packing, stocking and shipping. Another production unit has recently been opened for the manufacture of pipes and fittings in plastic materials.

Now supplying 85 countries worldwide, recognition stems from high quality production tailored to a variety of markets, compliance with appropriate Standards and Approvals by important International Institutes. With 75% of production exported, Giacomini's dynamic attitude and product reliability is well demonstrated.

Also clear is its concern for efficient production and outstanding design, using the most up-to-date computerised technology and systems in the hands of highly qualified personnel. This enables solutions for all constructive problems at the initial stage of research and development; with support from sophisticated laboratory equipment for hydraulic, mechanical, thermal and chemical testing, plus specific product checks and continuous supervision during production.

Closely aligned to testing, which is automatically carried out on 100% of the pieces, repetitive mechanical, hydraulic and thermal checks provide a constant measure that ensures consistency of quality and performance over the long term.

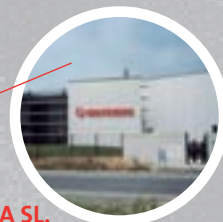
GIACOMINI SA.
SWITZERLAND



GIACOMINI BENELUX SA/NV
BELGIUM



GIACOMINI SA.
FRANCE



GIACOMINI ESPAÑA SL.
SPAIN



GIACOMINI PORTUGAL LTDA.
PORTUGAL



ARNEMA S.R.O.
CZECH REP.



GIACOMINI LATIN AMERICA
ARGENTINA



GIACOMINI GmbH
GERMANY



GIACOMINI S.p.A.
BEIJING REPRESENTATIVE OFFICE
P.R. CHINA



WARM WATER UNDERFLOOR HEATING WHY?

- ✓ Running costs significantly reduced, approximately 30% less than radiators, depending on application.
- ✓ When used with modern condensing boilers it will reduce running costs even further, this is due to a lower return flow temperature which will maximise the condensing feature and reduce fuel use substantially.
- ✓ Underfloor heating will give you an even distribution of heat unlike radiators which produce convection only.
- ✓ Heat produced in this manner is radiant heat unlike radiators which produce convection type heat.

Radiators create warmth by drawing cold air across our feet and convecting it towards the ceiling, leaving the floor space quite cool, and the ceiling holding a majority of the warmth, when the opposite is more comfortable.

Radiant heat which is produced with underfloor heating is a natural type heat; in fact the sun heats us in the same way. The heat is concentrated where we need it, where we sit and stand, with the floor normally being 2 deg C higher than the ceiling, which is natural with our feet slightly warmer than our head.

- ✓ No hot pipework or radiators for children, the elderly or pets to burn themselves on, or injure themselves on the sharp edges, of a radiator which could result in compensation claims.
- ✓ No radiators taking up valuable wall space, restricting the positioning of furnishings, requiring decorating, or removal to decorate behind, and clean.

- ✓ Cleaner environment, due to less air movement with radiated heat, so less airborne germs, pollen, dust, and dust mites.
- ✓ Suitable for all floor coverings, in tiled kitchens, laminate living areas, and carpeted bedrooms, in fact anywhere which suits your requirements.

So WHY NOT?



UNDERFLOOR HEATING

HOW IT WORKS

A radiator system transfers energy into a room or space largely by convection.

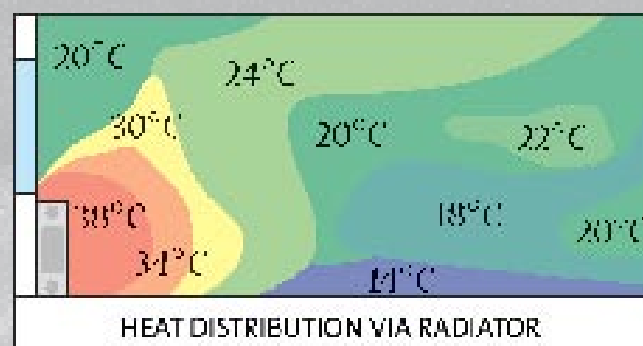
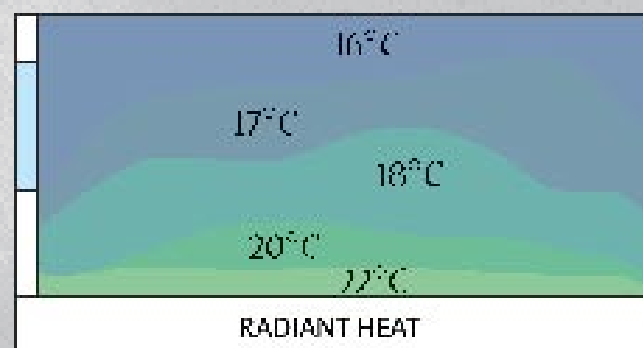
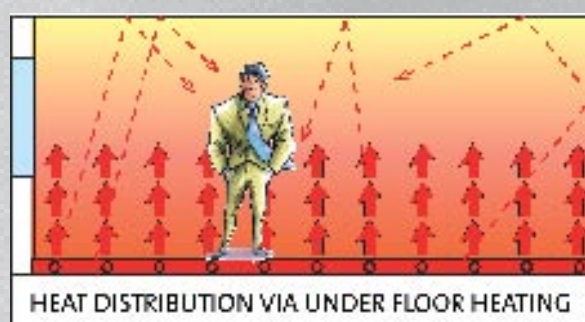
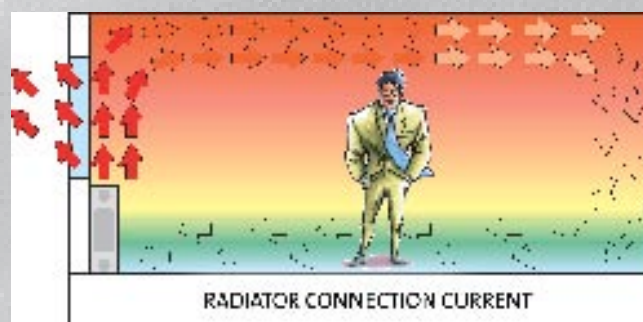
This convection results in the floor being the coolest part of the room leaving a mass of warm air at ceiling level. It also picks up fine dust particles from the floor and distributes it into the air and over furnishings.

Whereas an underfloor system heats almost entirely by radiation. This is the most natural and comfortable form of heating, like the Sun, Radiant energy is emitted by the floor, partly reflected by each surface and partly absorbed.

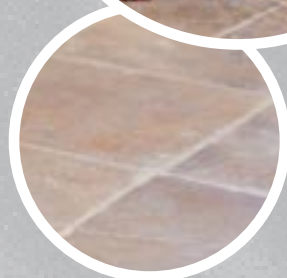
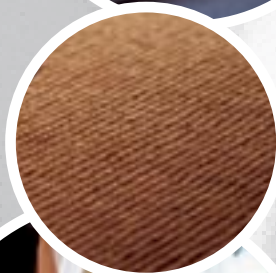
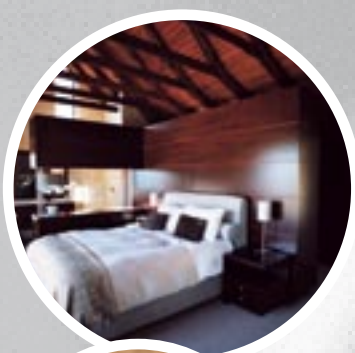
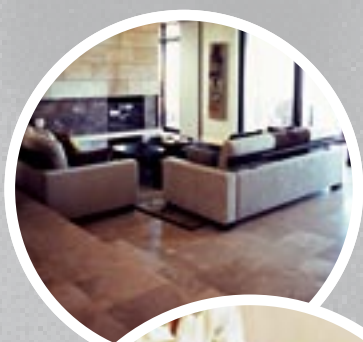
Where it is absorbed, that surface becomes a secondary heat emitter.

After a while all surfaces and furnishings themselves radiate energy and the room becomes evenly and uniformly warmed.

The energy reaches into every corner of the room or space which means – no cold spots, no warm ceilings or cold feet. In buildings with high ceilings the temperature actually reduces as the height increases, whilst with other systems the convection effect increases the temperature at high level giving a high heat loss through the roof. In addition to this, with underfloor heating the comfort level is achieved with an air temperature which is 2 Deg C lower than Convection Heating Systems. These factors mean that when designing an underfloor heating system, little allowance is required for buildings with high ceilings such as churches, barns, sports halls and similar buildings.



WHAT FLOOR COVERING CAN BE USED?



STONE AND CERAMIC TILES

Well that is simple to answer, as you can use almost any floor covering to suit your home, all pictured above are perfectly suitable.

CARPET

It is advisable to avoid very thick carpet and felt underlay if it has a 1.5 tog thermal rating or above, however normal carpet and underlay will not affect the performance of your Giacomini underfloor heating system, the only difference between covering types is the heat transfer time.

WOOD

WHY CHOOSE A GIACOMINI SYSTEM?

- ✓ We are leading the way throughout Europe with innovative heating systems, for all sectors of the market.
- ✓ We are the only manufacturer in the world who manufacture all components required for an underfloor heating system, i.e.

All plastic pipework

Brass manifolds

All associated brass fittings

Electronic controls

The result of this is we control all aspects of the system, to ensure the optimum quality, synergy and performance.

- ✓ Friendly helpful staff to assist you in your decision, and answer and questions raised.
- ✓ Design service available, by qualified, experienced C.A.D designers.

Technical communication n° V-024GB





Our full text catalogue
is available online at
www.specify-it.com



Giacomini Sales U.K. Ltd.
Unit3, Goodrich Close, Westerleigh
Business park, Yate
South Gloucestershire BS 37 5YS
01454 311012 TEL
01454 316345 FAX

