



Uponor Unipipe system – one pipe for all applications

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Contents











Contents











The MLCP market

The concept of MLCP – not a pipe but a system

 With MLCP not only a new pipe generation has emerged, but a completely new system philosophy



 Today, the customer is not just paying for two components, but the system know-how that makes these components fit together



1 + 1 > 2



- With the development of MLCP also a new fitting technology was born: the press fitting
- The press fitting has become the most preferred technology on the plumbing and heating market

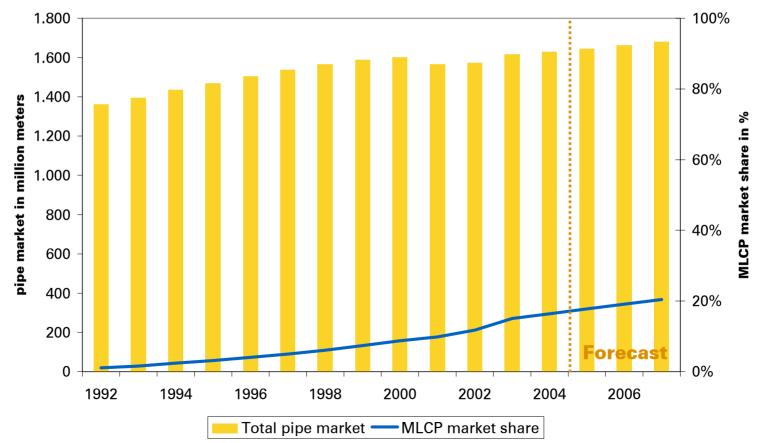






The MLCP market

Development of the European market for plumbing and underfloor heating pipes and MLCP market share



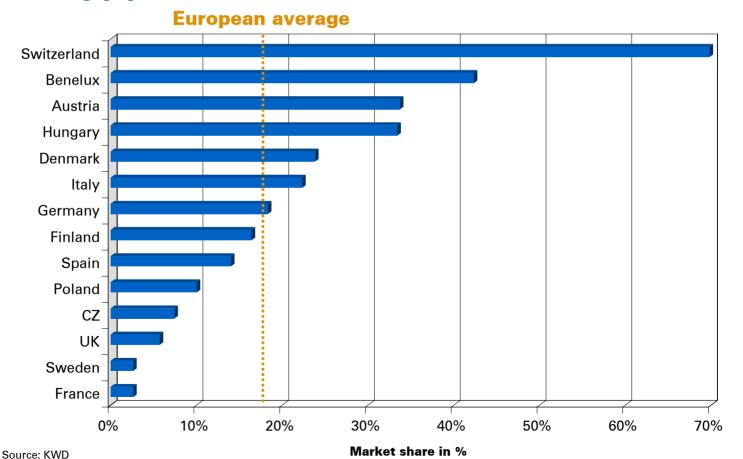






The MLCP market

MLCP shares of total market for plumbing and underfloor heating pipes 2004 in selected countries





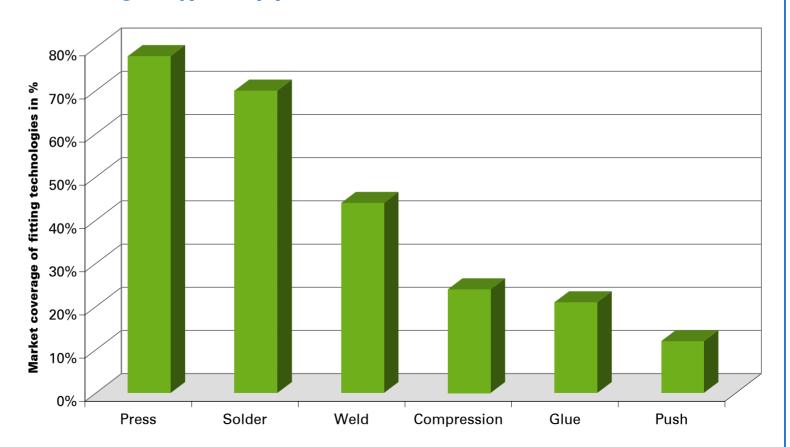
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The MLCP market

Market coverage of fitting technologies in Germany (considering all types of pipe materials)





Source: Querschiesser





Bringing

The Unipipe history

History 1984 - 2004

300m metres of pipe + 100m fittings

Development and production of fittings

Development of a manufacturing process for MLC

pipes

uponor

International

expansion

Integration in the **Uponor Group**

Continuous system development

Strong export orientation

Foundation of **UNICOR Rahn** Plastmaschinen





Market launch of the Unipipe **Systems**

1984



1992 1995





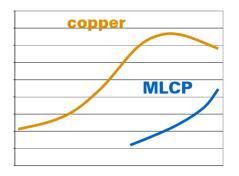
Conclusion

The success of multi-layer composite pipes reminds of a similar quantum leap in the plumbing and heating history:

In the early 70s copper pipes started to replace galvanised steel pipes as the number 1 choice in plumbing and heating installations. Thread-cutting was replaced by a new fitting technology: solder fittings. Copper pipes gained significant market share, but have in the meantime hit their peak.

- Multi-layer composite pipe systems have just started their lifecycle with growth accelerating quickly.
- Within a period of about 10 years, a completely new pipe philosophy changed the entire European market.





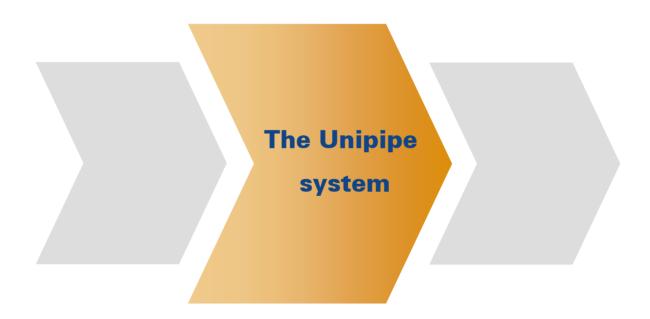






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Contents







Bringing

The Unipipe system





Fittings







Systems



Accessories



Pre-wall installation







The Unipipe system

Applications: Plumbing

Tap Water

Pipes, fittings and accessories from the riser to the fixture







Radiator Connection

Fast and safe solutions for all kinds of requirements

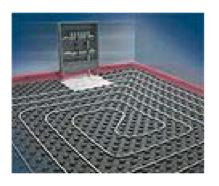






The Unipipe system

Applications: Heating / Cooling



Underfloor heating

Wall heating



Thermally activated building structures



Comfort and cosiness, energy saving and protection of the environment – these are the maxims on which which our heating / cooling systems are designed.







The Unipipe System

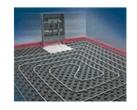
Strengths of Uponor's Unipipe



- One pipe for all applications
- Easy installation
- Available in 12 dimensions from 14 up to 110 mm
- Comprehensive offering
- Innovative system solutions
- Pioneer and market leader in multi-layer composite pipe systems
- Highest competence due to own production of pipe and fittings
- Professional sales organisation
- Always close to the customer













Unipipe worldwide

References: Germany



Bundeskanzleramt Berlin











Bringing comfort

Unipipe worldwide

References: international



Kempinski San Lawrenz Resort & Spa, Gozo, Malta



Lot Spa Hotel in Israel at the Dead Sea



Al Kalaa hotel Jeddah, Saudi-Arabia



Fachadas Life Square e Le Parc Porto Alegre, Brasil



Apartment Building in Astana, Kazakhstan







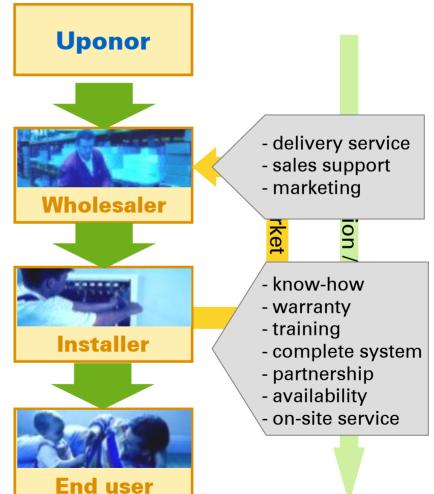
The concept behind Unipipe

Customer-targeted market approach

- service
- software
- data
- training
- security











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Contents











Unipipe – one system for all applications



UNIPIPE® Systems

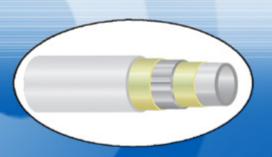
The advantages of the Unipipe system:

- One multi-layer composite pipe system for all applications
- Comprehensive product program for tap water, radiator connection and underfloor heating installations





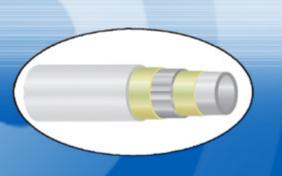
Unipipe – the multi-layer composite pipe





- The ideal combination of all advantages of metal and plastic pipes
- 5-layer composite pipe
- inner and outer layer made of plastic
- overlapped welded aluminium pipe

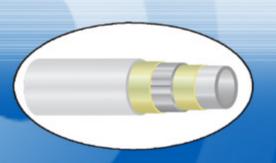




UNIPIPE® Systems

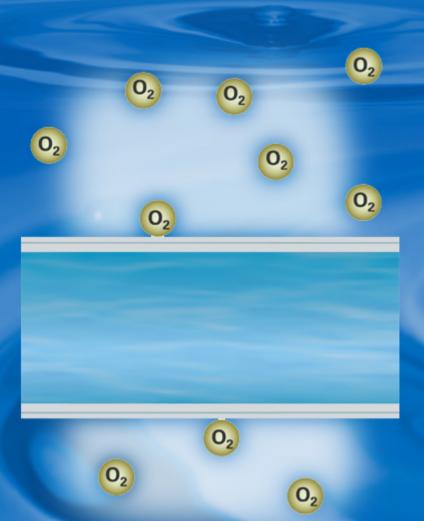
- no corrosion
- no incrustation due to insignificant pipe roughness





Systems

- absolutely oxygen tight
- photo resistant, thus no danger of germ penetration
- insignificant heat expansion





The fitting technology



UNIPIPE® Systems

- well-fitting press, compression or screw connections
- highest user friendliness
- meets the most stringent regulations for tap water installations
- a fitting technology for all requirements in practice







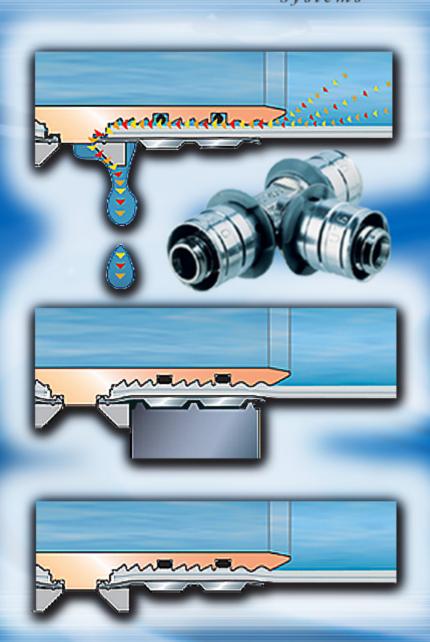
- highest reliability in pressure testing
- new, innovative fitting technology
- easy to install
- with optical control and pressing jaw guidance
- tin-plated surface





UNIPIPE® Systems

- As soon as a fitting has not been properly pressed, water will leak during the pressure test
- Just press the fitting the connection will be tight permanently!





System safety



UNIPIPE®

Systems

- Highest quality from the market leader
- Long life-time with long-term experience
- Tested and permanently monitored, also by independent institutions
- High temperature and pressure resistance







- 10-year-warranty
- Patent-protected and constantly optimised
- Meets the prevailing regulations for tap water installations (e. g. TrinkwV in Germany)





The installation





Cutting, ...



bevelling,

... insert the fitting,



- Fast, easy and safe installation
- Adjustments of the pipe possible even after pressing

... pressing, ...

... done!







Advantages for the installation:

- Pipe can be bent very easily
- Flexible pipes for the distribution
- Rigid pipes for the risers







Advantages for the installation:

- With the new fitting generation, the installation is even easier
- No sawing, soldering, welding, thread-cutting or the like
- System tools for all requirement
- Manual, electrical and battery pressing tools





Unipipe – the safe and durable installation





Advantages for the customer:

- odourless
- tasteless
- hygienically harmless
- reliable
- durable





Unipipe service





