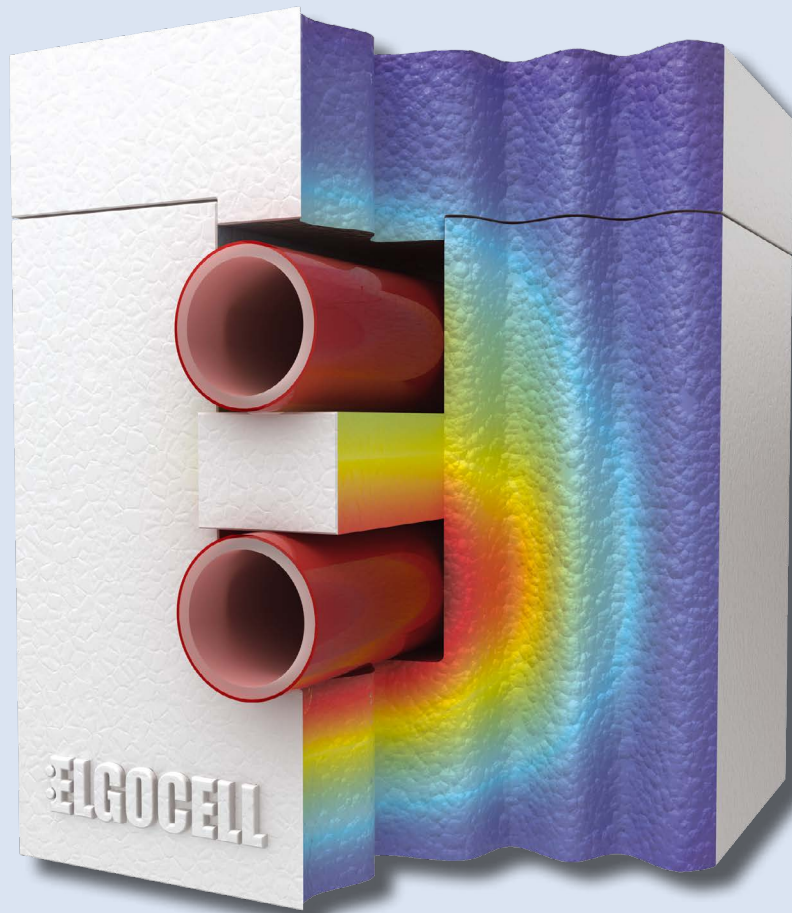


Saving Energy



Reducing CO₂ Emissions

ELGOTHERM

DISTRICT HEATING PIPEWORK

ELGOTHERM

DISTRICT HEATING PIPEWORK

Superior insulation with thermal energy loss from as low as 5 W/m

With thick EPS insulation and flexible PEX pipes

For heat distribution with max temperature of 80° C and max pressure of 6 bar

Areas of application

This efficient pipework is suitable for many types of residential and commercial areas, from new energy-efficient buildings to entire villages and industrial estates.

- Secondary pipework system in areas of terraced and semi-detached properties.
- Local district heating network in sparsely populated communities and villages.
- New developments with low-energy buildings.
- Connecting new buildings to existing district heating networks.
- Replacing pipework systems between buildings.

Costs

- Low investment costs; simple construction
- Low operation costs; superior insulation

Fitting by building contractors aids sequencing and avoids specialist charges reducing upfront costs.

Super-insulated pipework is key when energy needs to travel over longer distances. Energy losses in our distribution network are up to 70% less than conventional pre-insulated pipes.

The environment

- Reduces CO2 emissions
- Minimal thermal energy loss
- Less fuel consumed per kWh

Minimal thermal energy losses and reduced fuel consumption decreases the impact on the environment.

Standard range

Our pipes are categorised by heat loss and size. For each pipe size there are 3 standard insulation alternatives from 5 W/m (see product data sheet).

In addition to the standard options we can customise the culvert to each specific project.

We calculate thermal energy losses from each given set of circumstances.

Installation

- Entire project handled by a single contractor
- Short timespan from digging to refilling
- Easy handling - no heavy lifting required
- Flexible adjustment to branch pipes

The contractor can perform trench excavation, pipe assembly and refilling without welding and external expertise. Workflow efficiently managed by a single contractor.

The 2.4m long EPS blocks are placed in the trench and fixed with special riveted joint plates. The lids are removed. PEX-pipes (which are delivered in 50m or 100m lengths) are rolled out and joined with the unique axial press fittings. The lids are replaced and the trench is backfilled.

Elgocell provides supervised training and certifications in relation to all new projects.

Case studies

An extensive selection of case studies can be found on our website.

www.elgocell.co.uk

Flexible PEX pipework of the highest quality and durability

2-pipe system for heating (PN6)

Pipes with oxygen barrier are available in the following sizes: PEX20, 25, 32, 40, 50, 63, 75, 90, 110 and 125.

For heat distribution where domestic hot water is produced locally for each user.

Standard model with heat loss from 5 to 12 W/m.

The only 2-pipe duct on the market for size PEX75-125.

Where appropriate, four or more pipes can be installed in the same insulated duct.

Our PEX pipes are of the highest quality and durability as well as being corrosion resistant.



4-pipe system (PN6) for heating and domestic hot water (PN10)

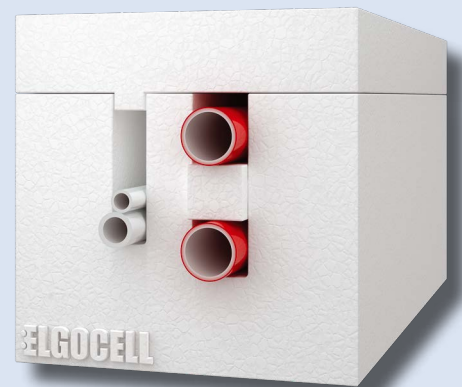
The heating pipes are the same as those used in the 2-pipe model.

The domestic hot water pipes are available in the following sizes: PEX16, 20, 25, 32, 40, 50, 63 and 75.

This system is usually used when domestic hot water is produced centrally and distributed to each respective user.

Heat is centrally generated in an efficient and environmentally friendly plant.

All combinations are possible which allows for maximum flexibility.



Polystyrene EPS-S200

A strong and highly insulating material.

The thermal conductivity of 0,034 W/mK does not deteriorate over time, unlike PUR foam, but retains its characteristics over its lifetime. **The increased thickness provides the super insulating quality.**

Density: 30 kg/m³

Thermal conductivity: 0,034 W/mK

Max temperature: 80 °C

Compression strength:

Short-term load = 20 tonnes/m²

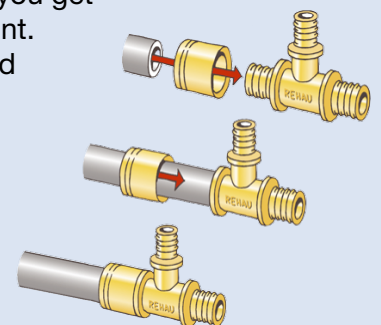
Long-term load = 6 tonnes/m²

High quality PEX-fittings

The pipe carrier system, Rautherm® and Rauhis®, is manufactured by REHAU® in Germany.

With the axial press fitting you get a strong and permanent joint. Fault sources are eliminated and a secure systems is guaranteed.

The fittings are made of special dezincification resistant brass.



ELGOCELL AB is a family run business which was founded in 2002 by Göran and Lars Olsson. Its strengths lie in its extensive experience in the energy industry and unique specialist expertise.

A creative approach has resulted in innovative, environmentally friendly solutions in the heat distribution segment, that are financially advantageous compared with other systems.

- Our personal involvement and close cooperation with our customers means that we can deliver customised solutions to your specific needs, right 1st time!



ELGOCELL Sweden HQ

In 2015 ELGOCELL Ltd was formed to meet the needs of the rapidly growing British market for higher performing heat networks. Based in Warwick, England, and complimented by the addition of business, sales and site operations management staff, it ensures that the high industry standards achieved in Sweden can be replicated. A full site supervisory training package is provided with each sale and audited quality procedures guarantee asset integrity and longevity.

ELGOCELL offers complete solutions, everything from planning and procurement to supervised implementation and completion. We support feasibility studies and we welcome being invited to attend design and site meetings to help ensure successful project delivery.

Elgocell's products are also addressed to a wider market with innovative solutions for various applications. All focused on saving energy loss to the ground e.g. district cooling, ventilation ducts, geothermal systems, ground heating and frost protection of services.

Super Insulated Solutions for underground pipes ducts and networks



Low Carbon Footprint



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