

Aquatherm and Ecology

Environmental protection is taken very seriously by **aquatherm**!

Products such as the **aquatherm** PP-R pipe systems feature not only a long service life, but also excellent environmental and social compatibility.

From the origin of the company, **aquatherm** placed emphasis on the fact that its products and manufacturing processes should not pollute our sensitive eco-systems, and ensured development of fully recyclable materials which can thus be added, problem-free, to new production.

Long before environmental protection was recognised as a global issue, **aquatherm** fulfilled ecological standards which are demanded today.

For now 40 years **aquatherm** has underlined its philosophy that ecological and economic interest should not be contradictory, neither during production and sales, nor in the product application.



The environmentally friendly raw material fusiolen® PP-R is used for the manufacture of the **aquatherm** pipe systems. To ensure its environmental compatibility, the basic material, polypropylene, as well as all contained additives (colour pigments and stabilizers) were extensively tested, not only by **aquatherm**'s own laboratory, but also by independent laboratories.



Their results show that the material fusiolen® PP-R and the pipe systems from which it is manufactured, comply with the highest ecological standards and are thus future orientated.

The **aquatherm green pipes** are an ecological and technical alternative to commercially available **PVC** and **Copper** pipes. Due to its chlorine content, the manufacturing as well as the processing and decommissioning of **PVC** involves considerable ecological risks. During the refuse incineration of products containing **PVC**, dioxins and hydrochloric acids are released.

The decommissioning of both toxic substances is complicated and cost-intensive.



Copper which occurs in increased concentrations during the first months following a **copper** pipe installation can lead to serious health hazards. For this reason, the limit value for copper in drinking water was reduced to 2 mg/l (ppm) in the European and Australian Drinking Water Directives. In the U.S.A. it is 1.3 ppm (1991 Lead and Copper Rule).



The environmentally friendly material fusiolen® PP-R is recyclable and can be ground, melted and reutilised for various applications. Because of its hygienic properties it is an ideal packing material for food. Yoghurt beakers, bottles, foils, cutlery, pilling boxes for vegetables, meat and fruit are made from polypropylene. There are no polluting substances with PP-R either in its processing or in its disposal.



Prime ecological advantages:

- PVC free
- The additive share of the fusiolen® PP-R material is below 3%
- Free from heavy metals hazardous to health (e.g. **Cu**, Pb, Ni)
- Longevity
- Recyclable



Aquatherm Piping

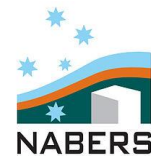
Color-coded piping makes water management much more practical.



Aquatherm's polypropylene piping is designed for specific tasks. **Aquatherm green pipe**, for example, is highly stable, made for potable water. **Climatherm (aquatherm blue pipe)** is engineered for chilled water, hydronic heating and industrial applications. **Lilac** is specifically designed for rainwater and grey water distribution. Like **aquatherm green pipe**, **Lilac** is fused at all joints with **aquatherm green pipe** fittings.

Aquatherm lilac pipe can be used for grey water and rainwater recycling systems for toilet flushing, irrigation, and even cleaning and laundry. Reusing water, not only saves you money on mains water, effectively paying for the water harvesting system during its lifecycle.

Also because all of our pipes are 100% recyclable, there is no product to go to landfill, also improving your Green Star, Nabers, BREEAM (UK) or LEED (US) rating.



It is also more economical to manufacture **aquatherm** than it is to manufacture metal pipes. Steel requires three times as much energy as **aquatherm** to be manufactured, and copper requires almost eight times as much. **Aquatherm** pipes are PVC free, free from health-hazardous heavy metals and are recyclable.

Sustainability



Think



Green!



aquatherm green pipe **aquatherm blue pipe** **aquatherm lilac pipe** **aquatherm red pipe**

aquatherm black system **aquatherm orange system** **aquatherm grey pipe**

