



## **TO THE RESIDENTS - IMPORTANT INFORMATION** **NEW TECHNOLOGY TO SAVE DRINKING WATER**

### **Ladies and Gentlemen,**

In your residential building, the waste water from the shower, bath, sink and washing machine is recycled using a modern in-house waste water treatment plant of the *system type*, so that it can be reused as so-called *process water*. Implementation took place on .

This process water is not food-safe, but is of high quality, so that it is absolutely harmless from a health point of view and is ideal for flushing toilets, filling washing machines, cleaning floors or watering gardens, for example.

### **As a resident of this house, you now have a decisive advantage:**

You make a very significant contribution to protecting our environment. You save valuable drinking water and protect your wallet at the same time.

We ask for your help to ensure that the biological-mechanical recycling process works and that we can guarantee the full operational reliability of the grey water system at all times:

- ▶ Please use a suitable **hair strainer** in the drain of your shower.
- ▶ Only use **biodegradable** body care products for showering, bathing and hand washing.
- ▶ Please **do not pour any paint residues, textile/hair dyes, varnishes or other discolouring additives** down the drain of the shower/bathtub/sink.
- ▶ **Chemicals** (e.g. bleach such as chlorine or hydrogen peroxide as well as medication and building materials (paint, plaster, etc.) must always be disposed of properly and in an environmentally friendly manner - **never in the sewage system!**
- ▶ Please **only use biodegradable** powders or liquid detergents (also such as in pods / caps, discs, etc.) that **do not contain bleach for laundry**.

**Thank you very much!**

\*) The process water treated in this way far exceeds the hygienic-microbiological requirements according to DIN EN16941-2 and DWA data sheet M277.



## How does grey water treatment work?

For all those who want to know more.

Our DEHOUST grey water treatment system for the utilisation of process water treats slightly contaminated waste water (the technical term is "grey water") from baths, showers, sinks and, where applicable, washing machines to produce high-quality process water.

Wikipedia:

**Process water** (often also referred to as **service water**) is water that is used for a specific technical, commercial, agricultural or domestic application. Unlike drinking water, process water is not intended for human consumption, but should meet a certain minimum hygiene standard.

To obtain process water, grey water is treated mechanically and biologically using high-quality filter technologies. Afterwards, the process water obtained in this way meets the hygienic/micro-biological quality requirements of the European standard EN 16941-2 (systems for the use of treated grey water) and can thus be reused; an ecologically and economically sensible measure.

First, the incoming raw grey water is mechanically filtered through a coarse filter to remove all undissolved water constituents such as lint or hair. An automatic back-flushing unit cleans the filter at regular intervals.

In the next step, the recycling system ensures that all organic, degradable water constituents such as shower gel, shampoo, soap, etc. are broken down with the help of special micro-organisms.

After a subsequent short resting phase, the pre-treated grey water is passed through a microfine filter. Its mesh threads are 2,500 times finer than a human hair and safely retain all solid particles, germs and viruses in the system.

The filtration process is controlled by a specially developed software programme to ensure optimum filtration performance and a long service life.

Thanks to the very high quality of the process water obtained from this filtration – it is absolutely clear, odourless and germ-free – it is hygienic and health wise unobjectionable. It can be stored for a long time and is ideally suited for a variety of other recycling applications.

**ANYONE WHO OPTS FOR GREY WATER TREATMENT IS LOOKING OUT FOR FUTURE GENERATIONS AND ACTS IN A FORWARD-THINKING AND ENVIRONMENTALLY CONSCIOUS MANNER.**