



Lutz-Jesco exhibiting
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Hall 4, Booth 237

Metering and disinfecting - our products' strengths

EASYDES – efficient and energy-saving

The EASYDES UV disinfection unit developed by Lutz-Jesco is purely for the physical treatment of water. This method of disinfecting water with high-energy, ultra-violet radiation is used, amongst other things, in water for industrial use, swimming and drinking water, as well as in the food industry.

With the help of the UV radiation, the infiltrating pathogens and micro-organisms in a water pipe system are biologically inactivated by destroying their genetic make-up.

The developed EASYDES line models prove effective in their practical construction for a quick installation and simple maintenance. The seven models in the EASYDES line vary in their radiation capacity as well as in their volumetric flow rate from 1000 to 3000 l/h and are selected according to the requirements of the operator. The compact devices with their well thought-out structure are, in a similar way to water filters, installed in an existing pipe system with a coaxial in and out process flow. The lamps can be changed under pressure and in the most restricted spaces.



EASYDES is suitable for the requirements of the DVGW (German Technical and Scientific Association for Gas and Water): depending on the model UV sensors can monitor the quality of the emitters. Impurities that build up on the lamp tubes are removed by means of hydraulic cleaning. Alerts are possible during faults.

Lutz-Jesco dosing pumps for a truly enjoyable beer

Before consumers can enjoy their clear, refreshing beer, it goes through a series of microbiological and physical processes after clarification and purification during its production, such as for example, fermentation and maturing. Suspended solids and cloudiness thereby arise, for example with the added yeast for fermentation, which has to be removed from the beer by various treatment measures. A "brilliantly clear" beer requires a special, finely balanced filtration – the kieselguhr filtration.

Kieselguhr is a flour-like mineral from the tertiary period and comes from hard-shelled unicellular algae containing silica (diatoms). Kieselguhr, also known as Diatomaceous earth, besides a filtration aid, is also used for sanding and polishing. Even when it is used for sanding, metering the kieselguhr denotes high technical requirements.

High-precision dosing pumps are required for adding the kieselguhr and they have to fulfil the following conditions to be used in breweries: precision low wear and tear and trouble free mode of operation, low maintenance and simple set-up and a favourable cost-performance ratio.

Piston-dosing pumps from Lutz-Jesco, for example the REKOS KR, best fulfil these requirements and have been used by prestigious brewery-outfitters worldwide as proven dosing technology. In addition to material suitable for foodstuffs the special brewery designs also have wear-resistance materials such as stainless steel, alumina and special lip seals.



Application report of our customer AQUA-PROTECT Decker GmbH

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Solution for abacterial water

There is a higher contamination risk in the piping systems of properties designed to have a high intake of water, such as hotels, old people's homes and hospitals. The so-called bacteria strain of legionnaire's disease is particularly feared here.

Help has been offered by increasing the warm water temperature and/or through shock disinfection. In the meantime, however, temperature resistant strains have already been found, so that the temperature has to be kept at 75 °C throughout the entire system right up to the last tap.

This does not only entail greater expense due to energy consumption, but also greater damage to the piping. In addition there is the danger of the cold water piping heating up over 25 °C and causing an infestation also in this area. Furthermore, the hydraulic calibration is often not taken care of, so that individual lines are not sufficiently flowed through.

This problem was also present in our case study.

The warm water temperature was run permanently at 75 °C, thus there was the risk of being scalded at the taps. The circulation temperature at the distributor still amounted to over 65 °C. The cold water at the taps was measured to be 27 - 28 °C.



Other solutions have already been

installed, which did not bring the desired successful outcome.

The chlorine dioxide technique was proposed after surveying and evaluating the problem, as well as making a comparison with the previous procedures.

Due to the boundary conditions it was decided to produce on site, as it was simpler and more economical overall.

After intensive market research we recommended that our customer use a chlorine dioxide unit made by the company Lutz-Jesco. The reason for this was the good consultation service offered, the solid technology of the reaction tank, over the control up to the dosing pumps, as well as the well thought out safety management. Only trained personnel are allowed to work with these units. The complex measuring equipment with a sampling cooler and the maintenance work allude to technically high quality system components.

Our customer is very satisfied with the installed unit.

First of all the water temperature can be cut back to 54 °C in the reservoir and successfully save a substantial amount of primary

energy. Secondly, success was already detected and verified after 3 weeks of the dosing in the circulation piping at the collection tank as well as at the quality control points.

All other systems have failed here.



We offer our customers:

- Engineering specialists to survey the problem
- Hydraulic calibration of the piping system
- Installation and maintenance of chlorine dioxide units by Lutz-Jesco
- Support after the installation

SDL Suction line – compact and safe

Lutz-Jesco developed the SDL suction line for the direct removal and dosage of chemicals from storage vessels.

As with the existing suction lines the newest offshoot is distinguished by its simple handling and multi-sided versatility. Attention was given to its compact structure right from the start of its development and not least in the choice of materials and the use of a protective tube, much importance was placed on its safety in use. By integrating level switches to monitor the level (optional) attaching a SDL suction line to existing and regulated dosing systems does not pose a problem.

The SDL suction line is available in different lengths from 1,100 mm and with different connectors.

