



## Application

The ultrafiltration units of the KOMPasep-DE-Line are used for recycling and disposal of various effluents and substances.

- Abrasive and saw waste water of the semiconductor manufacturing
- Removing of metal particles
- Removing of colloidal substances

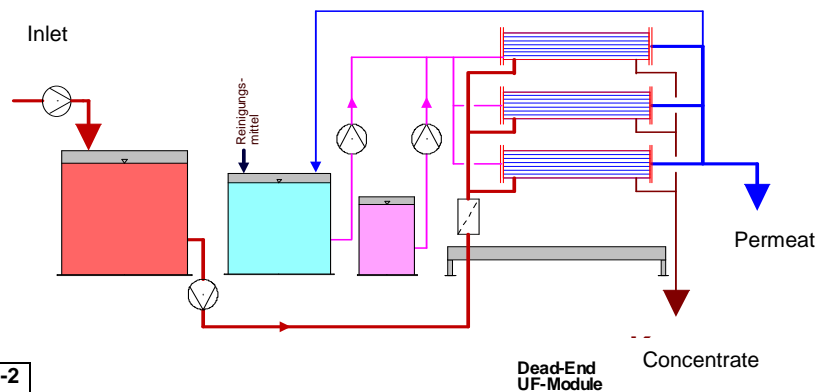
The polymer- membranes in use are applicable for waste water with low solid content and maximal temperature 40°C.

## Process Characteristics

The Dead-End-Ultrafiltration is a physical separation process. The process separates contained solid substances from the medium. The medium to be treated flows into the modules under a specific pressure (Dead-End-Process).

In specific intervals, the filtrated substances are rinsed out. Thereafter, the separation process is started again.

The pore size of the membrane is carefully chosen so that the passage to the smaller molecules like water and solved materials is granted (permeate) whereas solid particles are not allowed to penetrate the membrane (concentrate).



Type	DE1	DE2	DE3	DE3-2
Flow l/hr	650	1300	1900	3900
Membrane area m <sup>2</sup>	13	26	39	78
Material of piping	PVC or PPH			
Length ca. mm	2350	2350	2350	2350
Width ca. mm	1340	1340	1340	2680
Height ca. mm	2210	2210	2210	2210

Measures without tanks.

## Description of plant

The KOMPasep-DE-Line unit consists of:

- Storage tank
- Pre- filtration
- Dead-End-Ultrafiltration unit
- Rinsing tank
- Disinfecting unit

The operation of these plants is subdivided into the following main steps:

- Separation: filtration with drain of the permeate
- Back flushing: removing of the deposit solids
- Disinfecting: protection from possible organic/fouling

## Advantages

- Non polluting process
- Cost saving through recycling or minimising of the disposal costs
- Completely preassembled and function tested
- Clear disposition of the service and control elements
- Compact design
- Almost all plants are expandable with additional modules without changing of peripheral equipment
- Modern control concept at a central PLC unit

**Gütling** Wassertechnologie  
 Merowingerstraße 7  
 D - 70736 Fellbach  
 Tel.: + 49 (0) 711/518550 – 0  
 Fax: + 49 (0) 711/518550 – 220  
 www.guetling.com  
 guetling@veoliawater.com