

FORMULA

Plastic filter

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**LANDWEHR
WASSERTECHNIK**

WATER PREPARATION
POOL TECHNOLOGY
FILTER INSTALLATIONS



Landwehr Wassertechnik GmbH

The LANDWEHR Wassertechnik GmbH is a well-established market leader in the field of swimming pool water treatment. Furthermore LANDWEHR Wassertechnik GmbH operates in the domain of plant construction, especially in the field of communal and industrial water and waste water management plants. Our business activities include among comprehensive engineer-, service- and maintenance services also the production and the direct marketing of our plastic filter type FORMULA.

Qualification and quality management



- ▶ Specialised company, according to §19 I Water Resources Law (WHG)
- ▶ On-site rebuildings and plant maintenances are performed capably, considering conformance to all technical and legal standards
- ▶ Permanent education, as well as qualification measures of our personnel according to the rules of German DVS and DVGW
- ▶ Conformance to quality requirements according to DIN EN ISO 3834 part 3
- ▶ Conformance to requirements according to health protection and operational safety: German operational safety management system (AMS) – BG seal of quality

Employee qualification

- ▶ Welding performance qualification for plastics after German DVS 2212 in the subgroups I/4.1, 5, 6.1; II/1.1
- ▶ Adhesive bonding qualification for plastics after German DVS 2221
- ▶ Welder's performance qualification after DIN EN 287 part 1

Know-how - swimming pool water treatment

The "core" of every water treatment plant, is the filter system. Statutory technical orders and standards have to be applied, to guarantee a fully functioning treatment plant with the maximum operating comfort. Principals, architects and engineers need innovative and cost-effective relevant filter systems. Therefore we have developed our filter system type FORMULA. The filters are generally constructed by the use of plastic-segments and can be delivered pre-assembled or will be assembled on-site.

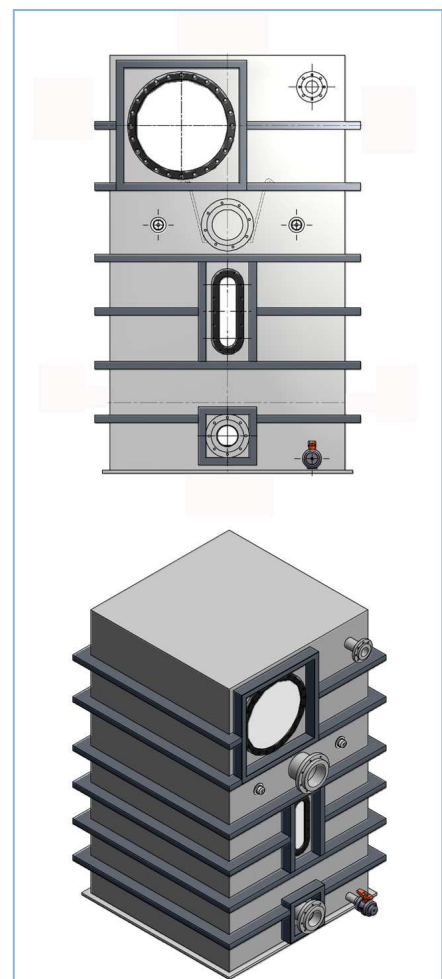


The plastic-segment filter type FORMULA

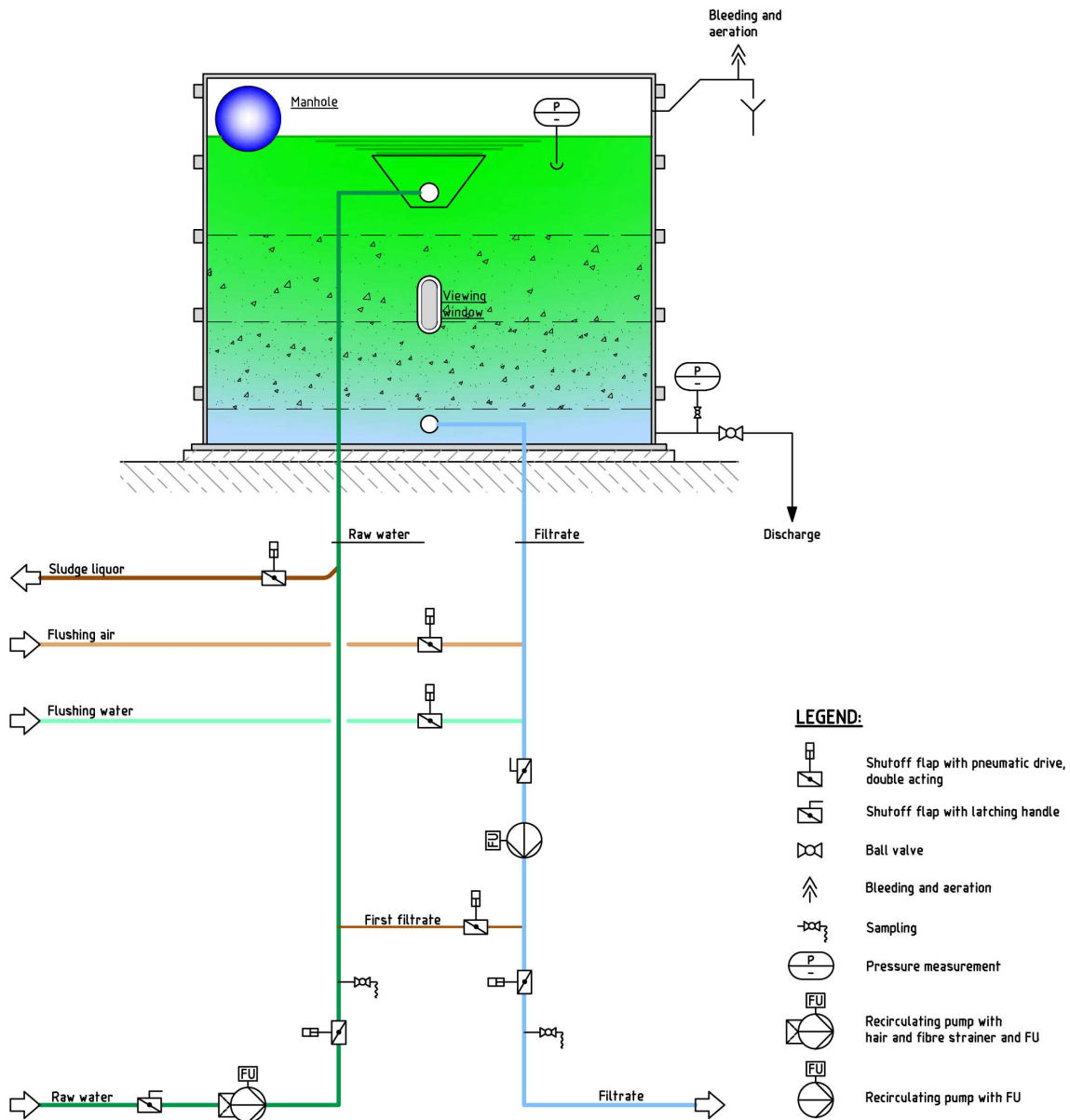
The FORMULA filter system will be constructed in close co-operation with our customers. Therefore it will be adapted for every special case of operation, considering individual wishes and requirements. Due to the compact construction technique, a variety of room concepts is available. Dimensions, requirement profiles as well as construction variants will be effected, considering the local structural conditions and the individual needs. Thus our filtration system guarantees a maximum flexibility, as all dimensions (height, width and depth) are infinitely variable. Nevertheless the system ensures the compliance of the corresponding statutory technical orders and standards.

Characteristics of the filter type FORMULA

- ▶ Segment construction in PP or PE material, variable colours
- ▶ Pressure-less filter system
- ▶ Corrosion resistant materials
- ▶ Robust, durable construction
- ▶ One to four chamber systems are available
- ▶ Maximum flexibility of dimensions
- ▶ Low installation height
- ▶ Ideal for existent buildings
- ▶ On-site installation, short assembly times
- ▶ Different filter material combinations possible
- ▶ Optimal air- and water distribution
- ▶ Available with jet filter bottom or jet-less filter tube bottom
- ▶ optimized fluid flow channel system
- ▶ Effective positioned viewing windows and transparent manholes
- ▶ Reduction of maintenance and servicing cost
- ▶ Reduction of energy consumption effected by reduction of pump performance



Process flow sheet of an one-chamber filter type FORMULA



If you are interested in further details of our plastic filter system type FORMULA or other Landwehr products, please contact us! More detailed information is also available on our homepage: www.landwehr-wt.de

Thank you for your interest!

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References FORMULA filter



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Extract from our references

- ▶ **Alfeld, All-weather swimming pool (Year of construction 2010)**
New construction of the all-weather swimming pool, water- and muddy water treatment using a multi-layer filtration with the plastic-filter system type FORMULA
- ▶ **Apeldoorn (Netherlands), Pelikaan Health & Racquet Club (Year of construction 2006)**
New construction of a wellness- and leisure center. Multi-layer filtration with the plastic-filter system type FORMULA.
- ▶ **Avesta (Sweden), Nytt Badhus (Year of construction 2007)**
New construction of a Public indoor swimming pool and water park. Multi-layer filtration with the plastic-filter system type FORMULA.
- ▶ **Bedburg, 'monte mare' (Year of construction 2010)**
New construction of a Public indoor swimming pool and water park. with sauna- and wellness area. Swimming pool water treatment using a multi-layer filtration with the plastic-filter system type FORMULA.
- ▶ **Bremen-Huchting, Public indoor pool (Year of construction 2010)**
The existing filter systems of the public indoor pool have been replaced completely by the plastic-filter system type FORMULA.
- ▶ **Cloppenburg, Water park (Year of construction 2011)**
Reconstruction and extension of the water park. Water treatment results from the existing steel filter. The plant has been additionally extended by several plastic filters type FORMULA.
- ▶ **Gleidungen, Primary school 2nd stage of construction (2011)**
Reconstruction of the plant room. Insertion of a double chamber filter Type FORMULA. Circulation rate: 99 m³/h.
- ▶ **Dissen, Public indoor pool (Year of construction 2010)**
Plastic filter systems type FORMULA are installed for both treatment circulations of the sports- and multi-function pool.
- ▶ **Gifhorn, Sports- and leisure pool "Allerwelle" (Year of construction 2011)**
New construction of the "allerwelle" with miscellaneous indoor and outdoor swimming pools using diverse chamber-types of the plastic filter type FORMULA.
- ▶ **Graz-Eggenberg (Austria), Sports- and wellness pool (Year of construction 2011)**
New construction of the sports- and wellness pool including eight separate treatment circles for 14 different pool plants. The indoor water treatment is carried out by the use of plastic filter systems type FORMULA.



- ▶ **Hagen, FZB Ischeland (Year of construction 2010)**
New construction of the sports- and leisure pool including six treatment circles. The pool water treatment is carried out by the use of plastic filter systems type FORMULA.
- ▶ **Hamburg-Altona, Holstenstraße (Year of construction 2009)**
New construction of the leisure pool. The pool water treatment (sweet water and brine) is carried out by the use of plastic filter systems type FORMULA.
- ▶ **Hamburg-Aspria, Klipper-Club (currently under construction)**
Construction of the Aspria Klipper Club in Hamburg including an indoor- and outdoor pool with three treatment circles. The pool water treatment is carried out by the use of the multi-layer plastic filter system type FORMULA
- ▶ **Helsinki (Finland), Jumbo Park Vantaa (Year of construction 2008)**
New construction of the leisure pool. The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **Kerpen, Indoor pool (Year of construction 2011)**
New construction of the School-, sports- and club pool in Kerpen. Two different pools have been constructed. The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **Kelsterbach, Leisure pool (Year of construction 2010)**
New construction of the sports and wellness pool in Kelsterbach including seven separate treatment circles. The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **Köln-Müngersdorf, stadium pool (Year of construction 2010)**
Total reconstruction of the Stadium outdoor pool. The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **Mamer (Luxembourg), Europe school (currently under construction)**
New construction of a school pool in Mamer (Luxembourg) using LWT FORMULA filters.
- ▶ **Mönchengladbach, Volksgarten (Year of construction 2009)**
Reconstruction of the outdoor pool 'Volksgarten' with stainless steel pools. The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **Oberhausen, Aquapark (Year of construction 2009)**
New construction of a leisure pool including three separate treatment circles The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **Petershagen/Lahde, outdoor pool (currently under construction)**
Reconstruction of the indoor pool using two double-chamber filters type FORMULA.
- ▶ **Pratteln (Schweizerland), Waterworld 'Aquabasilea' (Year of construction 2010)**
New construction of the sports and wellness pool in Kelsterbach including three separate treatment circles. The pool water treatment is carried out by the use of the plastic filter system type FORMULA.
- ▶ **St. Leon-Rot, Hallenbad (currently under construction)**
Four different pool plants are intended for the new construction of the indoor pool The pool water treatment will be carried out by the use of the plastic filter system type FORMULA.

