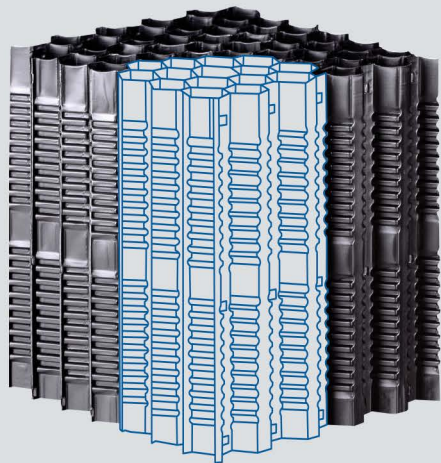
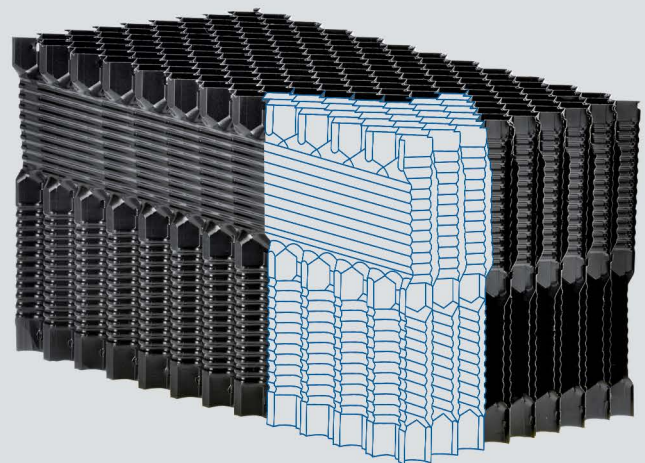


2H BIOdek® VERTICAL FLOW FILLS

Optimum Water Circulation and Sludge Removal in Biological Processes



2H BIOdek® KVP 623



2H BIOdek® KVP 319

By free selection of the sheet thicknesses highest mechanical strength is achieved for a long design-life. 2H BIOdek® is resistant against rot, fungi and most chemicals. UV protection additives are part of the compounds.

In our manufacturing process we use premium quality materials for high quality requirements. With our unique welding process fills can be assembled at any place of the world environmentally friendly, safe and avoiding the usage of solvents.

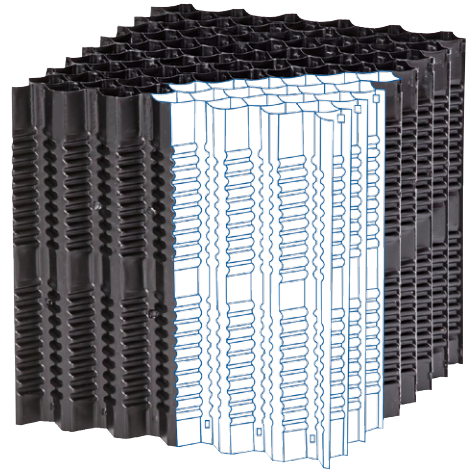
For more than 40 years we have been consistently developing and improving fills for trickling filters and contact aeration. This puts us today in the position of a leading supplier of biofilm technology. You may profit from our experience gained in equipping hundreds of plants with fill media. We will be glad to support you in the design of highly efficient, energy saving trickling filters and submerged fixed beds.

Features of our 2H BIOdek® Vertical Flow Fills

- Optimum structure ensures sludge removal and water circulation
- Freely selectable foil thickness for high bearing loads
- No memory effect
- Environmental friendly, impact and ageing resistant PP
- PVC optional with reinforced edges

High performance results in high biomass growth! 2H BIOdek® with vertical channels reliably releases excess sludge of trickling filters or of submerged applications. Even at low recirculation rates they enable safe operation of concentrated waste water or application of high volumetric loads. The straight channels ideally support the water circulation in submerged contact aeration.

| Technical Data | | |
|----------------------------------|-----------------|-------|
| | PP | PVC |
| Void ratio | > 97 % | |
| Maximum length | 2400 mm | |
| Maximum width | 600 mm | |
| Standard height | 305 oder 610 mm | |
| Continuous operating temperature | 70 °C | 55 °C |



2H BIOdek® KVP 318

Maximum tolerances:

On all dimensions +/- 20 mm or 2 %, whichever is the greater. Tighter tolerances and dimensions by prior agreement.

| Types | | | | | | |
|---|-------------------------------------|--|--------------|----------|---|--------------------------|
| Application | | | Type | Material | Specific surface area m ² /m ³ | Corrugation height mm |
| Trickling Filter | Submerged fixed bed | | | | | |
| Moderately polluted water – medium load | Nitrification | | KVP 318/618 | PP | 150 | 18 |
| | | | KVC 318/618 | PVC | | |
| Moderately polluted water – medium load | Strongly polluted water - high load | | KVP 319/619* | PP | 140 | 19 |
| | | | KVC 319/619* | PVC | | |
| Strongly polluted water - high load | Carbonaceous oxidation | | KVP 323/623 | PP | 125 | 23 |
| | | | KVP 323/623 | PVC | | |

*Additional feature of KVP/KVC 319: Channels have horizontal connections.

Remarks: The first figure of the type name indicates the standard height (e.g. KVP/KVC 323 › standard height 305 mm or KVP/KVC 623 › standard height 610 mm). Channel diameter = 2 x corrugation height.

Support requirements: Our team will support you to find an optimal solution for the support structure.

Installation of continuous channels: KVP/KVC media types can be installed with continuous vertical channels by a special installation system.

This information has been put together with greatest care. However, any performance data given in this leaflet is subject to compliance with certain surrounding conditions and hence may vary from case to case. Further, we reserve the right to make changes at any time without notice. We strongly recommend (i) reconfirmation with us whether this information is still fully valid, before using it for final designs and (ii) to verify performance data taking into account the actual surrounding conditions. We do not take any responsibility for any consequences due to non-compliance with these recommendations.

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ENEXIO Water Technologies, Germany, is ISO 9001:2008 certified.