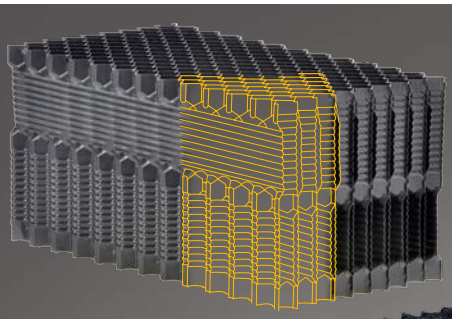
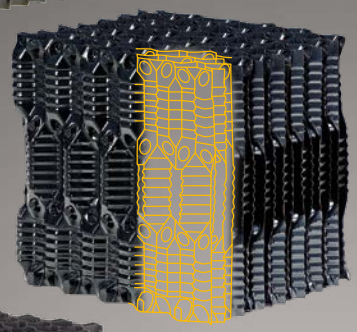
GEA 2H PLASdek® / CLEANdek Fills with HX-Factor

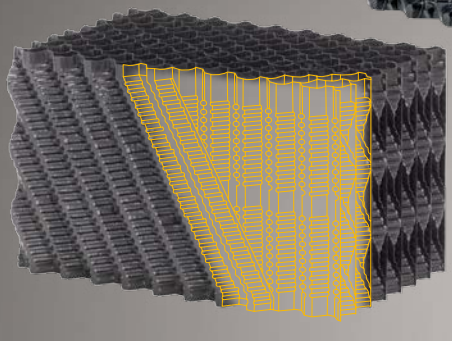
Vertical Flow Fills



GEA 2H KVC 319



GEA 2H KBC 320



GEA 2H KFP 18.19

GEA 2H PLASdek® and CLEANdek vertical flow fills excel in high operation reliability. The surface of the packings is designed to limit accumulation of solids and thick biofilms. The vertical channels and open interfaces support an optimum solids discharge.

GEA 2H PLASdek® and CLEANdek vertical flow fills are designed for the use in counterflow cooling towers with poor water quality.

With different types in PP, PVC and PPHT and different material thickness, GEA 2H fills cover all customer requirements. Fill media in flame retardant or anti-bacterial execution are available on request.

Bearing capacity and weight/m^3 depend on sheet thickness. It will be selected according to customer specification in consideration of process conditions and safety factors for temperatures, lifetime and material properties. Our experts recommend solutions for the support structure on request.

Our products have got the HX-Factor. It is our promise and stands for our unique competence in heat exchange (**HX** = **H**EAT E**X**CHANGE).

HX-Factors of our Vertical Flow Fills

- Self-supporting structure due to high bearing capacity with variable sheet thickness
- High resistance to erosion provided by reinforced PP edges
- Low pressure drop due to vertical direction of all channels
- Long service life due to chemical, bacterial and UV resistance of PP, PVC and PPHT

GEA 2H PLASdek® / CLEANdek

Technical Data

	PP	PVC
Max. length	2400 mm	
Max. width	600 mm	
Max. Height	300 or 600 mm	
Continuous operating temperature*	80 °C	55 °C
Max. operating temp. (short time)*	90 °C	60 °C

*Depending on recipe/additives higher temperatures can be reached by HT-additives.

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

Maximum application temperature: The operational temperature should be measured at the inlet pipe of the system and should not exceed the maximum temperature stated in this document.

High temperature applications: Fill media in high-temperature version in PVC (up to 75 °C) and PP (up to 100 °C) available on request.

Types

Application Counter-flow Cooling Tower		Type	Material	Specific surface area m²/m³	Corrugation height mm
Strongly polluted water		KVP 323/623	PP	125	23
		KVC 323/623	PVC	125	23
Slightly to moderately polluted water		KBP 320/620	PP	142	20
		KBC 320/620	PVC	142	20
Moderately to strongly polluted water		KVP 319/619	PP	144	19
		KVC 319/619	PVC	144	19
Polluted water		KFP 18.19	PP	150	18 / 19
		KFC 18.19	PVC	150	18 / 19
Polluted water		KGP 320/620	PP	142	20
		KGC 320/620	PVC	142	20

PVC-material: Unplasticized (uPVC)

PP-material: Impact-resistant, environmentally friendly

PVC and PP material: Resistant to rot, fungi and most dissolved chemicals, UV-stabilized

Continuous vertical channels: KVP media types can be installed with continuous vertical channels by a special installation system.

Flammability: Products in flame retardant version according to American and European standards available on request. National regulations on fire protection should be taken into consideration before choosing a product.

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 GEA 2H 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. GEA 2H takes no responsibility for any consequences due to non-compliance with these recommendations.

GEA Heat Exchangers

GEA 2H Water Technologies GmbH

Dieselweg 5, 48493 Wettringen, Germany
Phone +49 25 57 / 93 90 0, Fax +49 25 57 / 93 90 49
2h.hx.de@gea.com, www.gea-2h.com

© GEA 2H Water Technologies GmbH. Subject to modification. K6-08/2013 - WC-2013-0008-GB