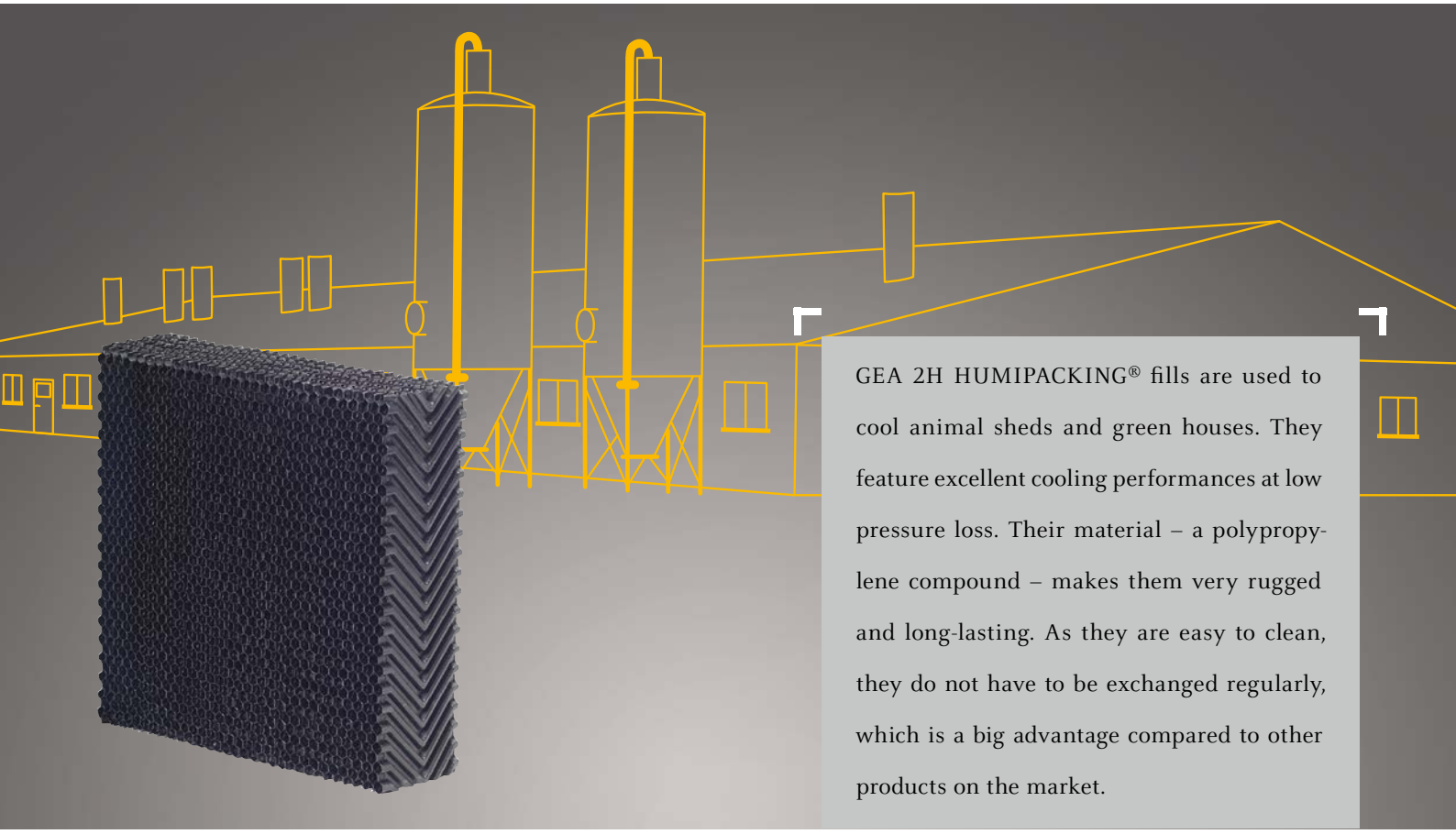
GEA 2H HUMIPACKING® with HX-Factor

Plastic Components for Evaporative Coolers



GEA 2H HUMIPACKING® fills are used to cool animal sheds and green houses. They feature excellent cooling performances at low pressure loss. Their material – a polypropylene compound – makes them very rugged and long-lasting. As they are easy to clean, they do not have to be exchanged regularly, which is a big advantage compared to other products on the market.

Evaporative cooling presents a proven procedure to cool chicken, hog or green houses, especially in warm regions of the world.

For this purpose, GEA 2H HUMIPACKING® fills are mounted into the walls of stables and green houses and are irrigated. An air flow generated by fans is lead through the fills and is at the same time humidified and cooled. The use of polypropylene together with the special geometry creates rugged elements that are imperishable, UV-resistant and almost impervious to light. When serviced appropriately, they offer a constant cooling capacity throughout their lifetime.

HUMIPACKING® elements are used as well in our AGRIdek climate system.

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 HUMIPACKING® fills

- Excellent cooling capacity
- Easy to clean
- Long service life
- High light resistance
- Low pressure loss
- UV-resistant
- High efficiency
- Easy installation

GEA 2H HUMIPACKING® fills

Technical Data

Type		Applications	Material	Specific surface area m²/m³	Max. height mm	Max. width mm	Depth mm
KFP 158		• Cooling of poultry and pig farms • Cooling of greenhouses • Cooling of warehouses • Domestic comfort cooling • Air humidifying	Polyproylene (PP) UV resistant	~ 320	2700	600	150

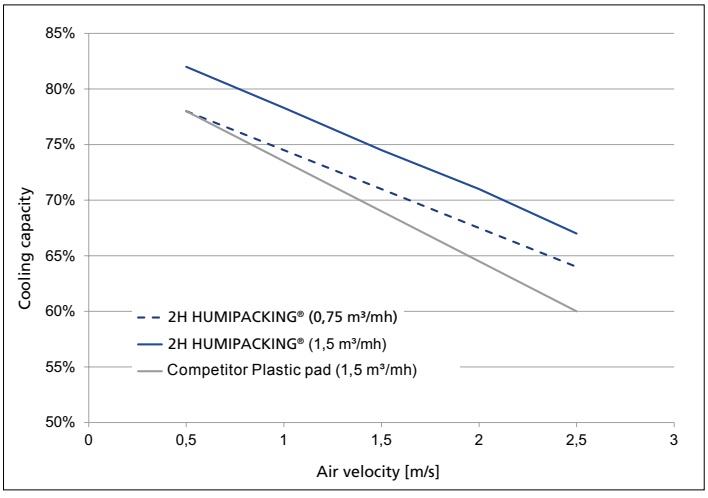
Maximum tolerances: On all dimensions +/- 20 mm or 2 % whichever is the greater. Tighter tolerances by prior agreement.

PP-material: Impact-resistant, environmentally friendly

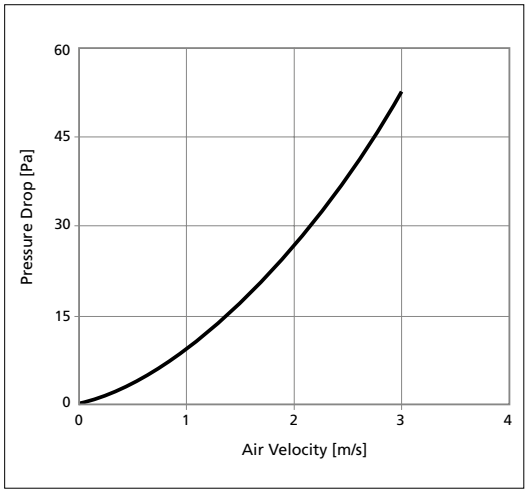
Efficiency of GEA 2H HUMIPACKING®

Air velocity (m/s)	0.5	1	1.5	2	2.5
2H HUMIPACKING® (0,75 m³/mh)	78.0 %	74.5 %	71.0 %	67.5 %	64.0 %
2H HUMIPACKING® (1,5 m³/mh)	82.0 %	78.3 %	74.5 %	71.0 %	67.0 %
Competitor Plastic pad (1,5 m³/mh)	78.0 %	73.5 %	69.0 %	64.5 %	60.0 %

Efficiency



Pressure Drop



Average values for water flows between 0.4 and 1.7 m³/h

Management System ISO 9001:2008
TÜVRheinland ZERTIFIZIERT
www.tuv.com ID 9105070210

GEA 2H Water Technologies, Germany, is ISO 9001:2008 certified.

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

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