ENEXIO

ENERGY.
ENGINEERING.
EXCELLENCE.

2H FILLS FOR CROSS-FLOW COOLING TOWERS

2H KSN 612

2H FX12.12

Detail
drift eliminator section
2H KSA

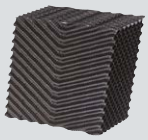
Generally, every cross fluted fill could be cut to be installed in a cross-flow cooling tower. Such a fill, however, would not perfectly fit the requirements; therefore we developed a special range of fill for this type of tower (2H FX12.12 or 2H KSN with an integrated drift eliminator section 2H KSA and an integrated air inlet louvre section 2H KSB).

Installation depths (air travel distance) and inclination vary with each brand of cooling tower. We offer fill depths of 300 and 600 mm. Combinations of these allow different installation depths (e.g. 300 + 600 = 900 mm). In most cross-flow cooling towers the fills are vertically installed at a certain angle (e.g. 10°). Our cross-flow cooling tower fills are cut to the required angle of inclination upon customer request.

Features of our 2H Fills for Cross-Flow Cooling Towers

- Optimal heat transfer properties
- Low pressure drop
- Fills especially designed for cross-flow cooling towers
- Fills with integrated inlet louvre and drift eliminator section
- Easy installation
- Long service life due to chemical, bacterial and UV resistance of PP and PVC

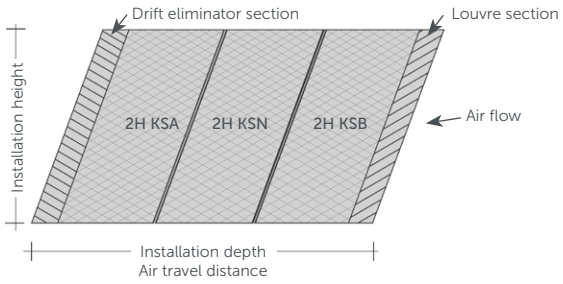
2H Fills for cross-flow cooling towers guarantee a high cooling capacity, ensure the operation reliability and allow the optimum adaptation to diverse requirements.

Technical Data									
Type		Material	Specific surface area	Corrugation height	Max. installation height	Max. width	Installation depth	Max. operating temperature	Void ratio
			m^2/m^3	mm	mm	mm	mm	°C	%
2H FX12.12		PVC	243	12	2400	600	300 / 600 / 900	55	> 97
2H KSN 612		PP	240	12	2200	600	300 / 600	75	> 97
2H KSN 619		PP	150	19	2200	600	300 / 600	75	> 97
2H KSN 627		PP	125	27	2200	600	300 / 600	75	> 97

Blocks with the integral drift eliminators (2H KSA) must be installed at the air outlet side (inside of the tower). The straight channels are directed upwards in the direction of flow. Our fills have been shown to meet all drift eliminator requirements at air speeds between 1 and approx. 3.5 m/s. To avoid any risk when operating above this air speed, it is suggested an extra drift eliminator be installed at a distance of 300 mm behind the 2H KSA fill. The best type for this purpose is the 2H TEP 130 drift eliminator.

Blocks with the integral air inlet louvre (2H KSB) must be installed at the air inlet side of the tower. The straight channels are directed downwards in the direction of flow. Depending on installation depth in the cooling tower, a 2H KSN type fill can be installed between 2H KSA and 2H KSB fill (see sketch). Due to its corrugation geometry the 2H FX12.12 could be installed vertically without inclination. At air velocities higher than 3.2 m/s a small inclination of 2° is required.

Installation Example



PVC material: Unplasticized (uPVC)
PP material: Environmentally friendly, impact- and erosion-resistant, optional available as 2H SANIPACKING®.
PVC and PP material: UV stabilized; resistant to rot, fungi and most dissolved chemicals; also available in flame retardant version.
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.
Support structure: Recommendation for optimum solution for each application available on request.
Maximum tolerances: On all dimensions +/- 20 mm or 2 % whichever is the greater. Other tolerances and dimensions by prior agreement.

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