

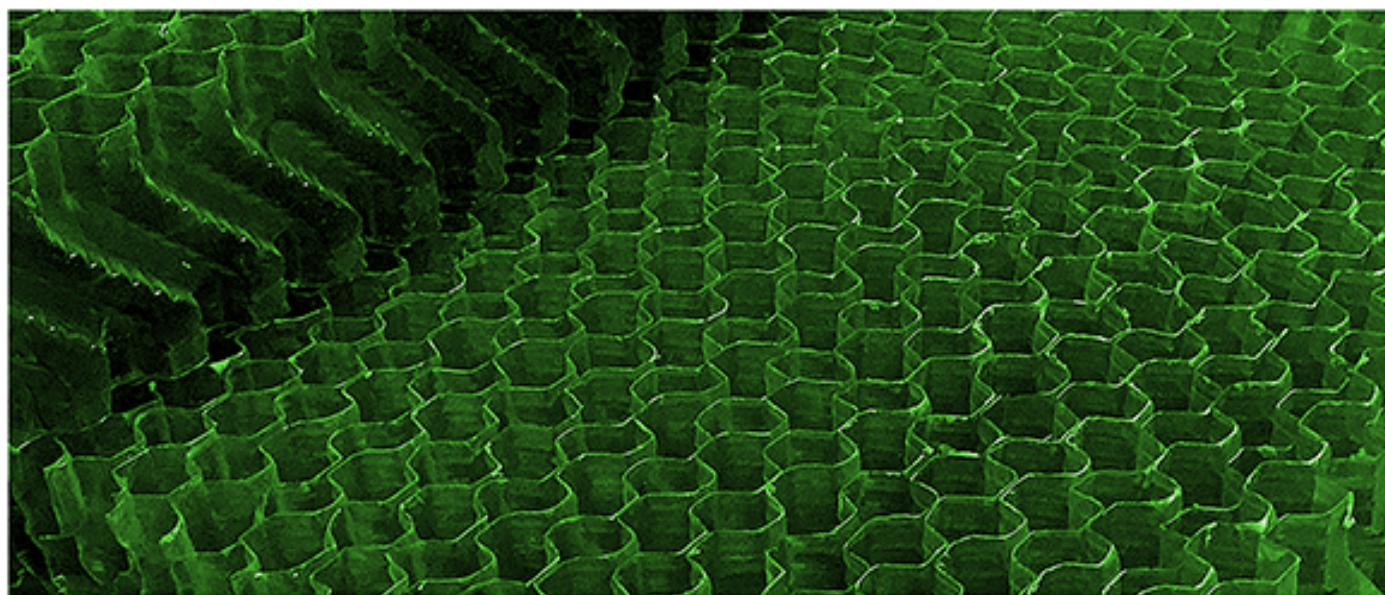


OEM SPARES

GENUINE FLOW TECH AIR SPARES
TO ENSURE SUPERIOR THERMAL PERFORMANCE

OVERVIEW

Cooling tower is in itself a niche product and its components can be difficult to install if not ordered correctly. Flow Tech Air has the genuine parts that are guaranteed to fit your Flow Tech Air cooling towers, because we designed/manufactured the towers and know all the specific components that are necessary to get your tower up and running. Why waste time trying to figure out what components to order, or order local spares which will only hamper your cooling tower. Trust Flow Tech Air to get the specific parts that you need, and work without worries.



KEY SPARES / SERVICES

- Honeycomb Fill packing
- Cellular Drift Eliminator
- Dynamically balanced axial flow fans
- Distribution system: All components can be assembled in the field to fit your existing tower.
- Mechanical Upgrades: Increase the performance of your existing tower for greater cooling capacity.
- Sound Reduction: Mechanical changes to meet ultra-quiet site requirements.



FTA12MF

UPVC FILL PACKING

Flow Tech Airs' FTA12-MF cooling tower fill, sets the bar for higher thermal performance.

FTA-12MF packing consists of a bonded assembly of vacuum formed PVC sheets. Each sheet is molded with a wave form corrugation in one plane and a secondary and smaller corrugation which is superimposed at a skew angle to the primary wave form. When the sheets are assembled into modules the major wave form creates vertical unobstructed air passageways which give the design a very low resistance to air flow. The secondary wave form creates apertures between the passageways to permit and encourage diagonal migration of the water film across the plate. It also adds a helix effect to the air passageways, imparting a twisting motion to the air and forcing it to intimate contact with the falling film of water.

Thermal Performance

We offer a comprehensive performance guarantee for all equipment in which we install FTA-12MF packing. The original performance characteristics for the packing were established in our own laboratories. The data for this has been subsequently re-enforced by field experience in many different industrial environments.

Unique Flow Pattern

FTA-12MF derives its success from the way in which the water film moves diagonally across each plate. This movement rapidly corrects initial irregularities in the distribution of water.

Low Running Costs

The very low resistance to airflow has been achieved without loss of cooling efficiency and tower equipped with FTA12MF packing normally consumes considerably less fan power.

Low Approach Conditions

Every sheet of FTA-12MF packing has a coarse grain surface effect superimposed over both primary and secondary wave forms. This significantly improves the adhesion of the water film and hence lowers the minimum wetting rate. This means that the packing efficiency is highest when producing water at a temperature closely approaching the wet bulb.

Sustained Performance

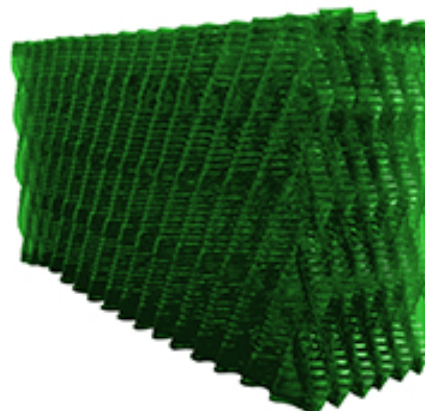
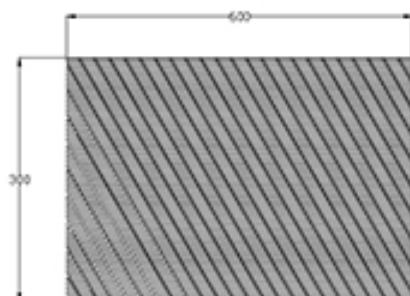
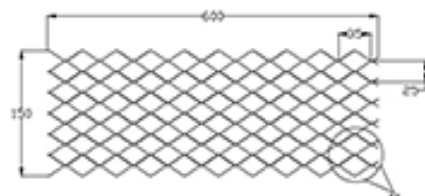
FTA-12MF packing is able to correct extensive errors in distribution which would otherwise result in significant loss of performance. Incorrect distribution is frequently caused by overdue or inadequate maintenance and the loss of performance which follows can usually be overcome by the FTA-12MF.

Patented Design

The finished profile of the FTA-12MF plate is so ingenious that new manufacturing process had to be developed to produce the molding tool. The design of the FTA-12MF packing is protected by the patent. It is company policy to respond vigorously to any infringement of these patents.

Resistance to Fouling

The dimensions in the passageways created between adjacent sheets are such that particles of 5 mm diameter, can pass through a module of packing without causing blockage. This makes the design highly suited to those applications where the water is of poor quality, example containing a high level of suspended or dissolved solids. It also means higher concentration factor may be permitted, saving on the cost of make-up and water and treatment chemicals.

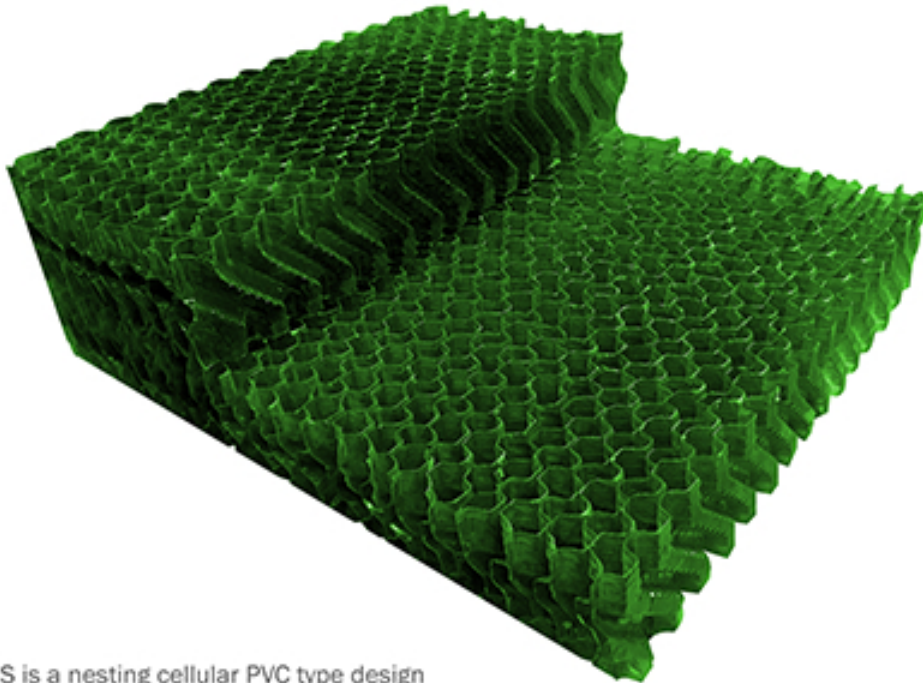


Module size : 600 x 300 x 150 (mm)
Surface area : 268 m² / m³
Foil thickness : 0.2 or 0.28 (mm)
Material : uPVC
Maximum operating temp. : 55 degrees C
Density : 16 kg / m³ or 20 kg / m³
Support centres : 300 (mm)

Bearing width : 30 (mm)
Maximum particle size : 15 (mm) diameter
Minimum water loading : 8 m³ / h / m²
Maximum water loading : 60 m³ / h / m²
Maximum live load : 740 kg / m²
Plate to bond strength : >20 kg tensile

FTA100HS UPVC DRIFT ELIMINATOR

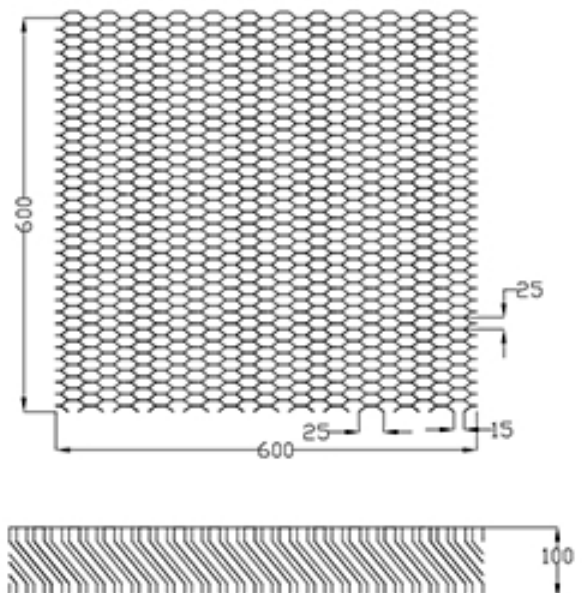
The FTA100HS Drift eliminator is a honeycomb cellular profile with low pressure drop which is manufactured exclusively by Flow-Tech Air Pvt. Ltd. The FTA 100HS have high efficiency with minimum resistance to air flow of fans. FTA100HS form an S shaped tubular structure. Individual S shaped corrugated sheets are bonded with subsequent layers to form the honeycomb like structure with single bank double pairs.



The FTA100 HS is a nesting cellular PVC type design drift eliminator. FTA100 HS is an advanced design that meets the demanding specifications for drift emissions today without compromising on fan HP.

Low drift rate is paramount in terms of an eliminator design and the FTA 100 HS produces typical drift rates of 0.02% of the total USGPM. Lower drift rates are also available depending upon tower specifications and additional client requirements.

FTA100 HS drift eliminators require negligible or zero maintenance. If in a situation it becomes necessary to clean them, one must take care so as to not physically damage the PVC eliminator packs.



Material spec. : 600 x 600 x 100 (mm)
 Sheet thickness : 0.3 to 0.4 (mm)
 Material : uPVC
 Maximum operating temp. : 55 degrees C
 Profile distance : 25



OEM SPARES

FTA-4/6-F DYNAMICALLY BALANCED AXIAL FLOW FANS

Flow Tech Air FTA-4/6-F fans are 4 to 6 blade fiberglass axial flow fans with a cast aluminum/SS hub which are dynamically balanced for zero vibration and corrected tip clearance. These fans are applicable in counterflow cooling towers with a wide range of diameter options providing a distinct advantage over fan designs.



All FTA-4/6-F fan assemblies are dynamically balanced to provide zero vibration as well as corrected tip clearance and track variation. All fan assemblies are accompanied by a heavy duty cast aluminum/ss hub. All fan blades are adjustable in pitch, so as to completely utilize the rated horsepower.

Based on true airfoil design providing superior air flow and pressure capability, these fans provide excellent performance and a long service life. Available in 700mm through 2400mm fan diameters in a variation of blade preferences.

The surface of the FTA-4/6-F Fans is made with the highest quality fiberglass reinforced plastic that is infused with pigment and epoxy resin to ensure the highest standard of quality.

The hollow blade is designed in a way to ensure rigidity, yet provide a light and easy handling.

KEY HIGHLIGHTS

Twisted Airfoil Design | Dynamically balanced | Fiberglass re-enforced plastic
Heavy duty cast aluminum/SS hub | Pitch adjustable | 700 – 2400mm diameter range
Zero vibration | Corrected tip clearance

OEM SPARES



THE FLOW TECH AIR ADVANTAGE

Whether your Flow Tech Air cooling tower has been installed 6 years ago or 20 years ago, we at Flow Tech Air know each component that was used because we designed it. No other manufacturer has the genuine Flow Tech Air spare product or the key knowledge and expertise required that enables Flow Tech Air to deliver the OEM parts without delay.

Why take a risk using another supplier's products that could result in a loss of overall tower thermal performance or require a lot of modifications to make it fit properly? Trust only genuine Flow Tech Air OEM spares to ensure that parts are designed to fit your tower and deliver OEM performance. In case of doubts, our knowledgeable Flow Tech Air representatives can help you identify the specific parts you might be looking for.

ONE STOP FOR SOLUTIONS

You'll find that we can provide you with a list of technical services available to help ensure that you operate an efficient, optimized and compliant cooling tower. Our technicians abide by CTI and ISHRAE/ASHRAE guidelines; and regardless of process or procedure, our staff is dedicated to delivering the best-in-industry service.

Ultimately, what Flow Tech Air offers is an absolute peace of mind that over two-and-a-half-decades of cooling tower experience can bring. Because we design, engineer, manufacture and service our cooling towers at the highest standards, it only stands to reason we understand them best.

When you need consultative/OEM technical services for your cooling towers—whether it's to diagnose or upgrade systems—you need to remember only one name Flow Tech Air.

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