

CFM 20

CFM 20 (Cross Flow Media type – 20 mm) is a structured fill pack manufactured by assembling specially thermoformed PVC sheets.

Integrated 3-in-1 Design

It has been specifically engineered to combine three essential cooling tower functions into a single integrated module, improving thermal performance while reducing the number of separate components required

1. Air Inlet Section

The specially designed air inlet geometry promotes uniform airflow distribution throughout the fill pack, reducing localized turbulence and ensuring optimal utilization of the entire active heat transfer surface..

2. High Efficiency Heat Transfer Zone

The central section features an optimized profile specifically developed to maximize wetted surface area and air-to-water contact time, resulting in enhanced heat exchange efficiency and improved cooling performance.

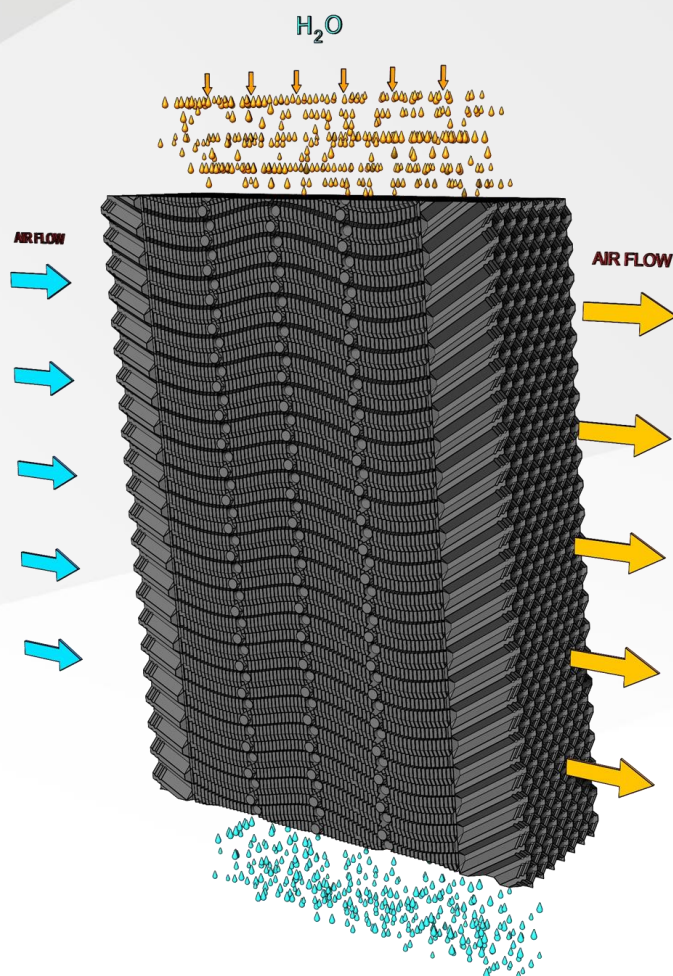
3. Integrated Drift Eliminator

The final section incorporates an integrated drift elimination zone with high droplet separation efficiency. This feature significantly reduces water carry-over losses and contributes to improved overall cooling tower performance.

PVC Material Features

The PVC used for manufacturing CFM 20 complies with the most stringent international standards, including **CTI Standard 136** and **ASTM E84**, ensuring long-term reliability and performance.

- ❖ **Lightweight** construction for easy handling and installation
- ❖ **Self-extinguishing** and fire-resistant material
- ❖ **High mechanical strength**, particularly under compression loads
- ❖ **Excellent resistance** to most chemical agents and biological attack
- ❖ **Naturally hydrophilic surface**, allowing water to form a uniform film and maximize heat transfer efficiency



Operating Temperature Range

Standard PVC	High-Temp. PVC	Low-Temp. PVC
-5°C ÷ 60°C	-5°C ÷ 75°C	- 40°C ÷ 60°C

Dimensions and Assembly

Sheet dimensions depend on mold size and thermoforming machine capacity. Fill packs can be supplied cut-to-size upon request.

Available Supply Options

- ❖ **Pre-assembled fill packs**, ready for installation
- ❖ **Individual sheets for on-site assembly**, reducing transportation volume and costs

Assembly Methods

- ❖ **Solvent-based chemical bonding**, leaving no residue in the finished product
- ❖ **Thermal welding** for a strong and durable connection

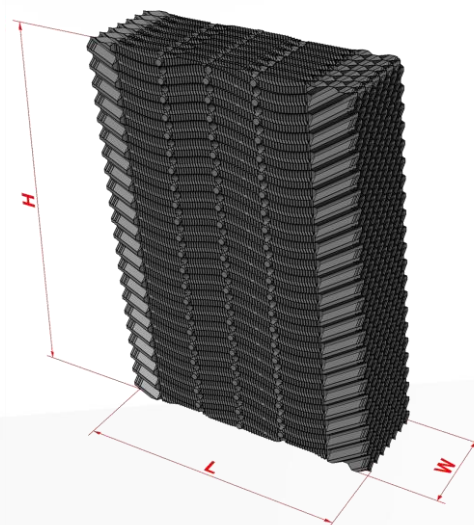
Refill Tech Solutions can also provide suitable equipment for on-site assembly operations.

Standard Modules Dimensions: L x W x H

Height (H)	1200, 1800, 2400 mm
Thickness (L)	900 mm
Width (W)	300, 600 mm
Inclination	5°

Standard Sheets Dimensions: L x H

Length (H)	1200, 1800, 2400 mm
Width (L)	900 mm



Technical Data

Specific Surface Area	155	m ² /m ³
Profile Height	20	mm
Available PVC Thickness	280 ÷ 450	µm
Load Resistance on Supports	350	kg/m ²
Impact Tensile Resistance	> 400 kJ / m ²	UNI EN ISO 8256
Fire Classification	M2: Low Flammability	NF P 92-507
Fire Rating	Class A	ASTM E 84 (NFPA 101)