

COOLFILM (SNCS)

The most efficient film fill

The **COOLFILM** (SNCS-Symmetrical Non-Contact Sheet) is probably the most thermally efficient fill worldwide. It is the perfect balance between very high efficiency and moderate pressure drops.

- Based on Hamon' well proven technology of non-contact sheets
- Designed with offset vertical flutes allowing vertical rotation of air with limited pressure drop
- Featuring sharp horizontal corrugations that induces an even water redistribution on the sheet and the water swirl for improved contact with the cooling air
- Well adapted to any induced draft or natural draft cooling tower using normal industrial water quality



The **COOLFILM** fill has proven its efficiency for more than 35 years

TECHNICAL SPECIFICATION⁽¹⁾

<i>Material</i>	U-PVC	<i>Color</i>	Dark grey to black
<i>Fire classification</i>	M2 as per NF P92-507 FS<25 as per ASTM-E84	<i>Typical module height</i>	500 or 1000 mm
<i>Sheet thickness (before forming)</i>	0.3 mm	<i>Typical specific weight (0.3 mm thick)</i>	21.0 kg/m ³ ± 5%
<i>Sheet pitch</i>	20 mm	<i>Fouling rate coefficient</i>	1.0 (base: SNCS = 1.0)
<i>Emptiness factor</i>	> 95%	<i>Specific heat exchange surface</i>	154.0 m ² /m ³
<i>Maximum debris size (diameter)</i>	17 mm	<i>Maximum water temperature (continuous/peak⁽²⁾)</i>	55°C / 60°C (with fan in operation)
<i>Max. total suspended solid (yearly average/peak⁽²⁾)</i>	50 ppm / 100 ppm	<i>Maximum water salinity</i>	35 g/l
<i>Supporting method</i>	Suspended or bottom supported		

(1) Values given in the table are for standard products. Special products are available upon request.

(2) Short duration, non-continuous.

Other materials options are: PP, PVC-C & ABS; sheet thickness of 0.35, 0.5 mm or other; varying module sizes; fire classification M1; temperature resistance (up to 80°C). Other colors may be obtained. The corrugated sheets are solvent welded (glued) together to form pack modules. Optionally, the sheets may be assembled by thermo-welding in order to avoid using glue. The assembly can be carried out on site to avoid large volume transportation.



Product Range

- Fan Diameter : 12 to 38 ft
- No. of Blades : 6 to 8 No.s
- Air Flow : 10 to 1000 m³/ sec
- Pressure : 10 to 200 pascal
- Speed : 100 to 750 rpm
- Power Rating : upto 250 kW

HAMON CT FANS

Feature	Benefits
Single piece integrally moulded fan shank with fan blades that are manufactured using balloon technology	Integrally moulded Hamon fans are structurally stronger, thus assuring customer of a long and trouble free service life Challenges with commonly available multi-piece design fans are that they a) Can fail at the bolted joint between shank and blade leading to imbalance and catastrophic failure of the fan, damage to gearbox, drive shaft and the entire Water distribution system b) Can spit at the points where the two halves of the blade are joined especially the leading edge. Water seeps through these cracks into the hollow blade causing imbalance, vibration, thereby damaging the complete mechanical set of gearbox, driveshaft and motor
Energy efficiency where it matters the most : Ensuring designed cold water temperature (CWT) by delivering design air quantity	Hamon fans are uncompromising in their primary role of creating the designed airflow (draft) that directly impacts the ability of the CT to deliver the desired cold water Temperature (CWT) Light weight fans claiming to save auxiliary power, may not be able to generate the draft required, thus directly impacting cooling tower performance and causing loss of power generation / process cooling for the customer
Scaled down model tested at Indian Institute of Technology (IIT)	Hamon fans are not just theoretically proven. They are tested at highly credible 3rd party labs / Institutions. In addition, Hamon fans have proven themselves for years in operational use across various environmental conditions, in India and internationally Thus when a customer buys a Hamon make fan, he buys peace of mind and years of dependable performance
CTI PFM 143 is the basis for Hamon fan performance testing	Authenticity of fan performance is guaranteed when testing is done by institutionally approved methods. With Hamon fans, customers is assured that test results are reliable, repeatable and can be independently verified
Testing instruments calibrated at IIT	Calibration of instruments by credible 3rd party institutions guarantee data accuracy and trustworthiness of results. Hamon goes that extra mile to ensure the customer onsite test results are a true reflection of reality