

Drift Eliminators for RYOWO FT Series Cooling Towers

General Description

Drift Eliminator is the component equipped at the discharge side of the cooling tower structure for further reduction of drift loss rate. Drift eliminators for RYOWO FT series cooling towers are vacuum-formed PVC film assemblies having a flame spread rating of 5 per ASTM E84 and designed with multiple zigzag passes such that the water droplets can be effectively separated from the air stream and flow back to the circulating water, aiming for a drift loss less than 0.001% as per AS 4180 Standard as well as very low pressure drop losses.

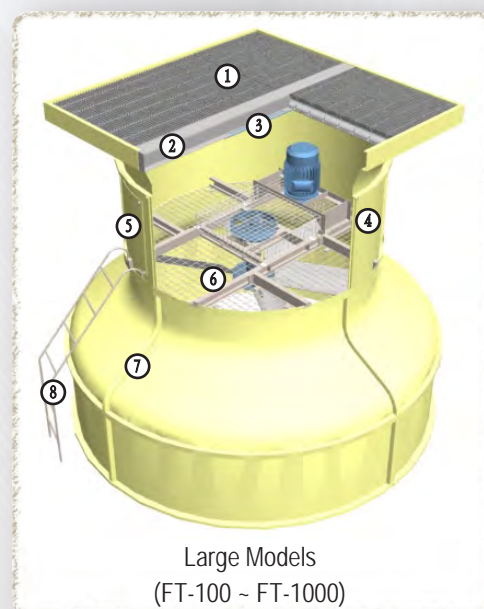
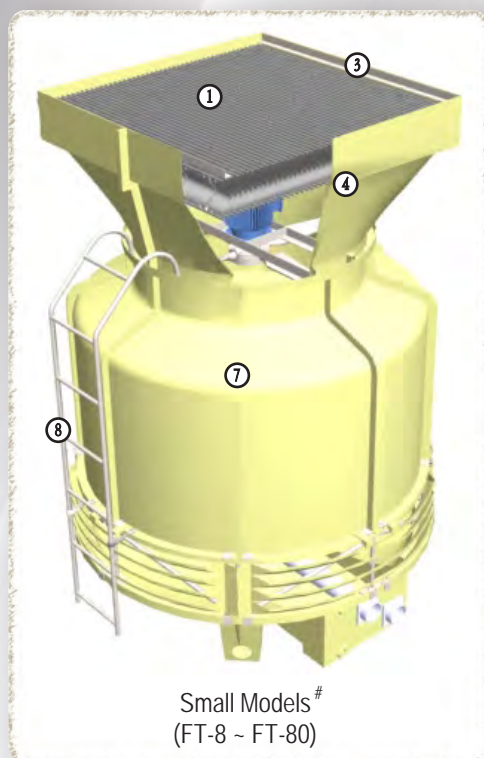
Structure

- ① Drift Eliminator
- ② Drift Eliminator Support Channel
- ③ Removable Steel Angles / Removable Retaining Bars
- ④ Drift Eliminator Bucket
- ⑤ Access Door
- ⑥ Fan Guard
- ⑦ Casing
- ⑧ Ladder

Step ladder is required for reaching the bolts & nuts when assembling or removing the Removable Steel Angles at the other side of the Drift Eliminator Bucket.

Dimensions of Drift Eliminator Buckets

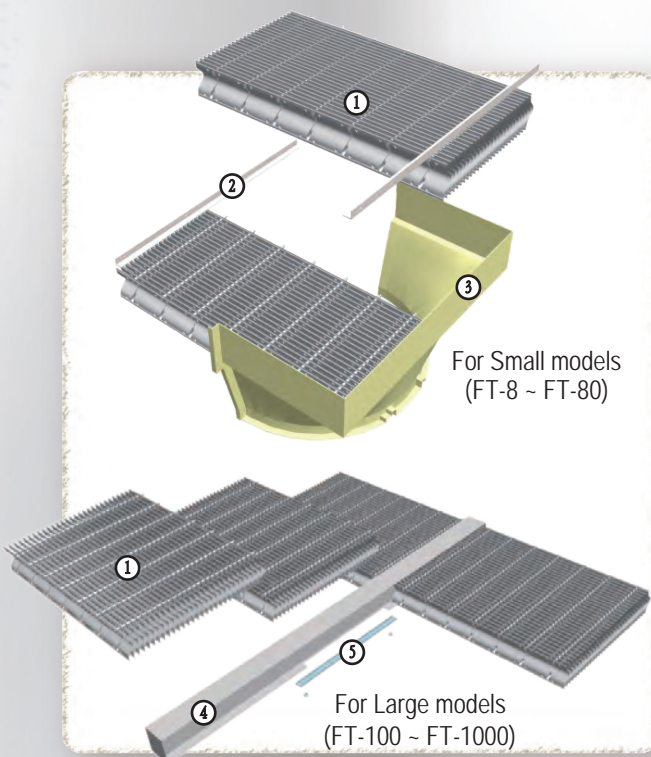
Models	Length (mm)	Width (mm)	Height (mm)
FT-8	830	830	405
FT-10/15	915	915	455
FT-20/25/30	1045	1045	595
FT-40/50	1220	1220	595
FT-60/80	1500	1500	700
FT-100/125/150	1890	1890	1430
FT-175/200	2175	2175	1430
FT-225/250/300/350	2790	2790	1430
FT-400/500	3360	3360	1430
FT-600/700	3810	3810	1430
FT-800/1000	4090	4090	1430



Drift Eliminator Sub-assemblies

The whole drift eliminator block can be divided into several sub-assemblies for ease of installation and removal.

- ① Drift Eliminator Sub-assemblies
- ② Removable Steel Angles
- ③ Drift Eliminator Bucket
- ④ Drift Eliminator Support Channel
- ⑤ Removable Retaining Bars



Maintenance

The drift eliminator collects the water droplets together with the contaminants deposited in the water and air when the discharge air stream passes through. As a result, monthly inspection and six-monthly cleaning of the drift eliminator are required in order to retain the good drift eliminating performance. Replacement of the drift eliminator should be carried out when the drift eliminator pieces are decayed and can be crumbled easily after long-term usage.

Procedure for Drift Eliminator Maintenance:

1. Ensure that the cooling tower is stopped and the electric wires are disconnected.
2. Open the Access Door in the wall of Drift Eliminator Bucket and go into the Drift Eliminator Bucket through the Access Door, and then stand on top of the Fan Guard. (This step is inapplicable for small models.)
3. For large models, remove the Removable Retaining Bars beneath the Drift Eliminator. The Drift Eliminator Sub-assemblies can be removed in the absence of the Removable Retaining Bars.

For small models, the Drift Eliminator Sub-assemblies can be removed after removing the Removable Steel Angles above.

4. Remove the Drift Eliminator Sub-assemblies one by one.
5. Clean the Drift Eliminator Sub-assemblies with high pressure water jet ($< 2\text{Mpa}$).
6. Re-assemble with the cleaned or new Drift Eliminator Sub-assemblies following the reversed steps.



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