



HAMON UK LTD

Hamon Series 1500 Packaged Cooling Towers

A range of GRP cooling towers, which satisfy the requirements of HSE (L8), combining ease of maintenance with current health and safety standards.

100% compliant with HSE (L8).

GRP Construction

- ◆ Corrosion resistant, smooth and easy to clean.

Stainless Steel Fixings

- ◆ Excellent corrosion resistance plus high strength.

PVC Fill, Drift Eliminator, Air Inlet Screens and Pipe work.

- ◆ Corrosion resistant, smooth and easy to clean.

Lightweight Removable GRP Panels

- ◆ Easy access to internals for maintenance and cleaning.



Modular Design

Versatile tower range. Easily adapted to suit space available.

Expandable for future developments.



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Features of the Hamon Series 1500 Cooling Tower to satisfy HSE (L8)

Drift Eliminator

- ◆ High efficiency PVC drift eliminator is corrosion resistant and easy to clean.
- ◆ Sealed into position to ensure no air gaps.
- ◆ The Hamon H33S eliminator screen has an efficiency better than 0.005% of circulating water.



Air Inlet Screens

- ◆ PVC cellular air inlet screens are corrosion resistant and easy to clean.
- ◆ Easily removed for cleaning and access into basin.
- ◆ Fully enclose the area above the basin to reduce the effects of windage.
- ◆ Provides an effective screen against the ingress of birds, vermin, leaves and other debris.
- ◆ Configuration and black colour means very little light is able to pass through, reducing algae growth.



Water Distribution System

- ◆ PVC, ABS and Polypropylene water distribution system is corrosion resistant and easy to clean.
- ◆ Low pressure nozzles ensure efficient water distribution without the formation of fine droplets.

Access For Cleaning

- ◆ Side panels are easily removed to allow access for cleaning.
- ◆ Pack and eliminator are easily removed for cleaning.
- ◆ Sloping pond floor complete with drain for easy drainage.



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SUMMARY – The Hamon 500 Series Cooling Towers fulfil all the requirements of HSE L8.

Health & Safety Executive Guidelines L8	Design and Construction feature of the Hamon series 1500 Cooling Towers to satisfy the recommendations of L8
<p>Section 81: Design & Construction <i>Cooling systems should be designed and constructed so as to control the release of drift, to aid safe operation, cleaning and disinfection</i></p> <p><i>In particular:</i></p> <p><i>Clause 81(a) Drift eliminators usually made of plastic or metal, should be installed in all cooling towers. Drift eliminators should be well fitted and selected on the basis of their ability to reduce the release of small water droplets.</i></p> <p><i>Wooden slats do not control the small droplets and should be replaced.</i></p> <p><i>Operating conditions, especially the discharge air velocity, affect the efficiency of the eliminators, for example, if the fan is not running.</i></p> <p><i>Clause 81 (b) the area above the cooling tower pond should be as well enclosed as possible to reduce the effects of “windage”. Wind movements around the tower may cause drift to escape through the sides, especially if it is poorly enclosed. This is particularly significant when the tower runs with its fan off. It may be necessary to screen the tower or it’s pond to prevent the entry of birds, vermin, leaves or other debris or contaminants and to reduce solar heat gain.</i></p> <p><i>Clause 81 (c) the water distribution system within the cooling tower should be designed to create as little spray as possible.</i></p> <p><i>Deadlegs in pipework should be avoided.</i></p> <p><i>Clause 81 (d) Parts of the tower which become wet should be accessible for cleaning, packing should be readily removable and easily dismantled.</i></p> <p><i>The wetted areas of the tower should, where possible, be shaded from direct sunlight to discourage the growth of algae. The pond should have a sloping bottom with a drain connection at the lowest point which is large enough to carry away water and slurry quickly and easily. A suitably sized drain down valve should be located at the lowest point so that the entire system can be conveniently and completely drained, including all pipework and items of equipment. It may be necessary to fit supplementary drain valves to the bottoms of individual items of equipment.</i></p> <p><i>Clause 81 (e) the tower should be constructed of materials which can readily be disinfected and which do not support microbial growth. Preserved timber may be used for the manufacture of cooling towers and packs but it needs to be impervious and easy to clean and disinfect.</i></p>	<p>A high efficiency drift eliminator screen is located at the top of the tower and sealed to ensure no air gaps. The selected air velocity in the range of 2 m/s to 3 m/s is such that the drift eliminator selected is operating at maximum efficiency. The efficiency of the selected drift eliminator screen is better than 0.005% of the circulating flow.</p> <p>PVC cellular air space louvres are fitted to all air intakes . this fully encloses the area above the cooling tower basin to reduce the risk of ingress of birds, vermin, leaves and other debris and contaminants. The configuration and black colour means very little light is able to pass through the louvres reducing algae growth on the interior surfaces.</p> <p>Low pressure, large bore plastic water distribution nozzles ensure efficient water distribution without the formation of fine water droplets.</p> <p>The cladding side panels of your Hamon Series 1500 Cooling Tower are easily removed to expose the fill, water distribution and eliminator screen to aid maintenance, cleaning and disinfection. The fill can easily be removed in man-handleable modules to aid maintenance and cleaning. The basin is designed with a sloping floor and large drain to aid drainage during maintenance periods.</p> <p>Your Hamon Series 1500 Cooling Tower is constructed of GRP, PVC and stainless steel grade 304 in the wetted areas. These materials provide a smooth non corroding / non rusting surface, which can be readily disinfected and does not support microbial growth. No timber what so ever is used in the construction of your Hamon Series 1500 Cooling Tower.</p>