



# Package Cooling Towers

IWC is a leading cooling tower manufacturer with an extensive range of cooling towers for all applications and industries.

Our cooling towers are 100% South African made and we stock a large range of spares to assist customers at short notice.



# EWK Cooling Tower Range

The iconic EWK cooling tower is manufactured in a robust, durable and compact glass reinforced polyester casing.

EWK cooling towers have truly stood the test of time and thousands of these units are still successfully operational after many decades of reliable service.

## Components

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### Casing

The cooling tower casing is available with or without a water basin, and is made of glass reinforced polyester. All fasteners are from stainless steel. The standard colour is grey, however other RAL colours are available on request.

### Drift eliminator

Profiled plastic elements (PVC, Polypropylene or ABS) prevent water droplets from being carried out of the cooling tower by the air flow.

### Water distribution system

Self-cleaning, full-cone plastic nozzles are attached onto the water distribution pipes. These ensure a uniform distribution which is key to the performance of the cooling tower.

### Fill

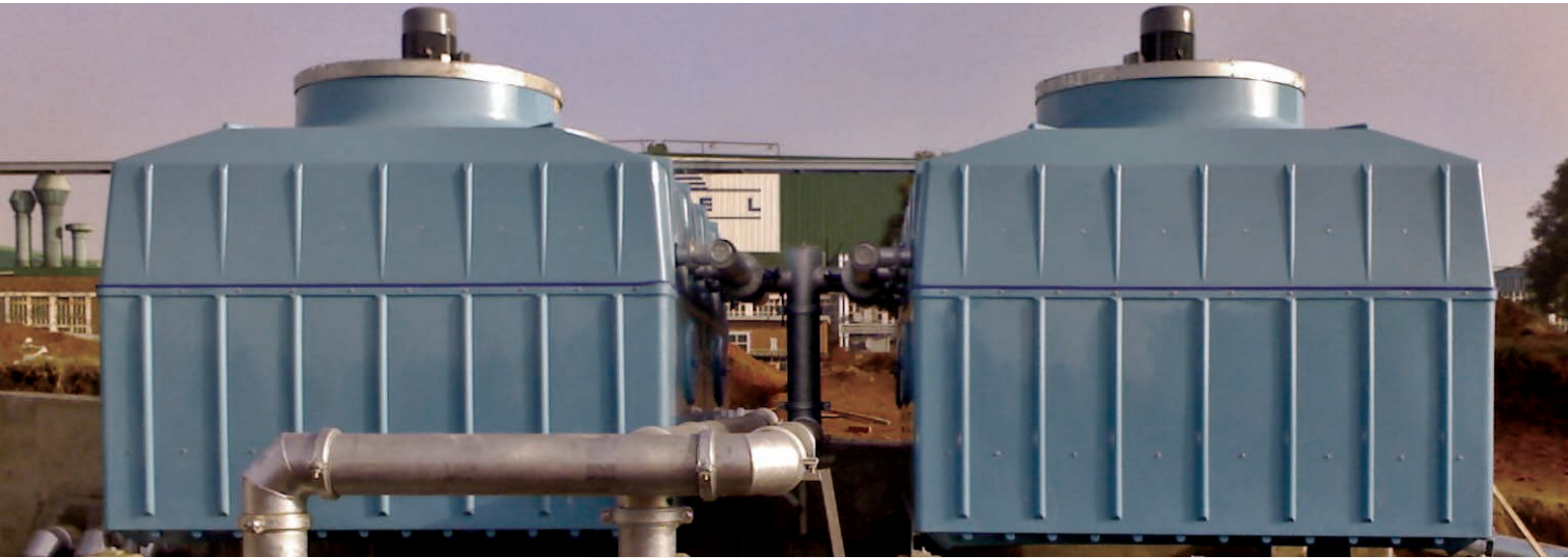
Various cooling tower fills are available and are selected to best suit the process conditions (both temperature and water quality). Fill materials are generally either made of PVC or polypropylene but other materials to suit higher temperature applications are also available.

### Cooling components

The cooling components are carefully selected to ensure that there is minimal corrosion and no degradation (rotting).

### Dark Room Louvres

The cooling towers are generally supplied with Dark Room type air inlet louvres which are made of plastic (PVC or Polypropylene), and prevent water from splashing out. These can easily be dismantled for inspection and cleaning purposes.



### Sieve/basket strainer

The sieve/basket strainer is attached to the cooling tower outlet, and prevents dirt from entering the water system.

### Make-up Float valve

The float valve is connected to the make-up water supply.

## Advantages



Non-corrosive, long life and light weight



Very high cooling capacity, re-cooling of up to 350 m<sup>3</sup> of water per hour in a single tower



Individual systems in a modular system with several variants and modular designs, with an optional water basin



Low energy consumption and easy maintenance due to induced draught fans



Long maintenance intervals and service life



Plug and play design results in simple, economical installation

# FM Cooling Tower Range

The FM range of cooling towers is a range of multi-fanned factory assembled cooling towers manufactured in a robust, durable and compact glass reinforced polyester casing.

This range of cooling towers provides high cooling capacity units that are easily transported, installed and maintained.

## Components

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### Casing

The casing is available with or without a water basin. The FM design consists of a 3CR12 or stainless steel frame (either 304 or 316 stainless steel), the casing consists of glass reinforced polyester side sheets and glass reinforced polyester fan casings.

The readily accessible cooling tower fan deck is provided with a non-slip surface and a safety handrail. Access to this deck is by means of cat ladder or staircase (by request). All fasteners are made from stainless steel. The standard colour is grey however other RAL colours are available on request.

### Axial ventilation fan

Each unit has multiple direct driven fans. The aerodynamically optimised blades are made of polyamide or aluminium, and are adjustable when stationary. A protective grille covers the fan.

### Drift eliminator

Profiled plastic elements (PVC, Polypropylene or ABS) prevent water droplets from being carried out of the cooling tower by the air flow.

### Water distribution system

Self-cleaning, full-cone plastic nozzles are attached onto the water distribution pipes. These ensure a uniform distribution which is key to the performance of the cooling tower.

### Fill

Various cooling tower fills are available and are selected to best suit the process conditions (both temperature and water quality), fill materials are generally either made of PVC or polypropylene but other materials to suit higher temperature applications are also available.



### Cooling components

The cooling components are carefully selected to ensure that there is minimal corrosion and no degradation (rotting).

### Louvres

The air inlet louvres are made of plastic (PVC or Polypropylene) or stainless steel depending on customer preference, and prevent water from splashing out. These are easily removed for inspection and cleaning purposes.

## Advantages



Non-corrosive, long life and light weight



Low energy consumption and easy maintenance due to induced draught fans



Long maintenance intervals and service life



Plug and play design results in simple, economical installation

# PLT Cooling Tower Range

The PLT modular range of cooling towers is manufactured in a robust, durable glass reinforced polyester casing.

This range of cooling towers have multiple gear driven fan units and are provided with or without an integrated basin. These cooling towers can be assembled either in the factory or on site (knock down form). These towers are suitable for numerous applications and in the knock down form, lend themselves to be installed in hard to reach areas such as roofs of buildings, or remote sites.

## Components

### Casing

The PLT tower is made up of a glass fibreglass-reinforced polyester frame, side sheets and glass reinforced polyester fan casings.

The readily accessible cooling tower fan deck is provided with a non-slip surface and a safety handrail. Access to this deck is by means of cat ladder or staircase (by request). All fasteners are made from stainless steel.

### Axial ventilation fan

Each unit has multiple gear driven fans. The aerodynamically optimised blades are made of aluminium or fibreglass, and are adjustable when stationary. A protective grille covers the fan.

### Drift eliminator

Profiled plastic elements (PVC, Polypropylene or ABS) prevent water droplets from being carried out of the cooling tower by the air flow.

### Water distribution system

Self-cleaning, full-cone plastic nozzles are attached onto the water distribution pipes. These ensure a uniform distribution which is key to the performance of the cooling tower.

### Fill

Various cooling tower fills are available and are selected to best suit the process conditions (both temperature and water quality), fill materials are generally either made of PVC or polypropylene but other materials to suit higher temperature applications, are also available.

### Cooling components

The cooling components are carefully selected to ensure that there is minimal corrosion and no degradation (rotting).





### Dark Room Louvres

The cooling towers are generally supplied with Dark Room type air inlet louvres which are made of plastic (PVC or Polypropylene), and prevent water from splashing out. These can easily be dismantled for inspection and cleaning purposes.

### Outlet Strainer

The outlet strainer is attached to the cooling tower outlet, and prevents dirt from entering the water system.

### Make-up Float valve

The float valve is connected to the make-up water supply and is used to maintain the water level in the basin.

## Advantages



Non-corrosive, long life and light weight



Low energy consumption and easy maintenance due to induced draught fans



Long maintenance intervals and service life



Plug and play design results in simple, economical installation



**Industrial Water Cooling (Pty) Ltd**

55 Lake road  
Longmeadow Business Estate North, Edenvale, 1609  
**T** +27 (0) 11 466 0699 **E** mail@iwc.co.za **W** iwc.co.za