



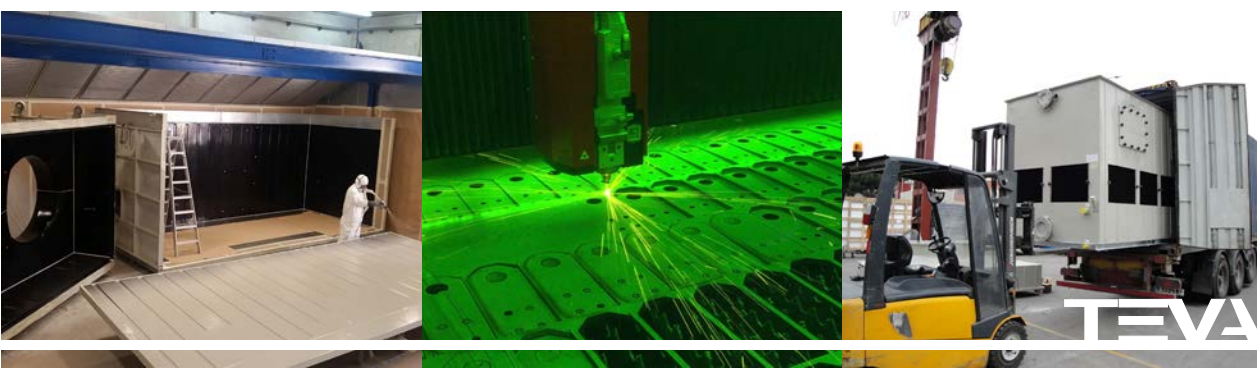
**TEVA**<sup>®</sup>  
TECNICAS EVAPORATIVAS, S.L.

# Open circuit cooling towers

In open circuit towers, there is direct contact between the water to be cooled and the air that goes through the heat exchange fill. This direct contact makes open circuit towers the cheapest and most efficient of all the cooling options on the market.

The TEVA range of open circuit towers includes versions manufactured from galvanised steel sheets or glass reinforced polyester that is resistant to corrosion, with both versions also being equipped with axial or centrifugal fans depending on the needs or requirements of the facility.





TÉCNICAS EVAPORATIVAS, SL (Teva) is a prestigious leading company in the design and manufacture of equipment for the evaporative cooling of water, industrial liquids and refrigerant gases.

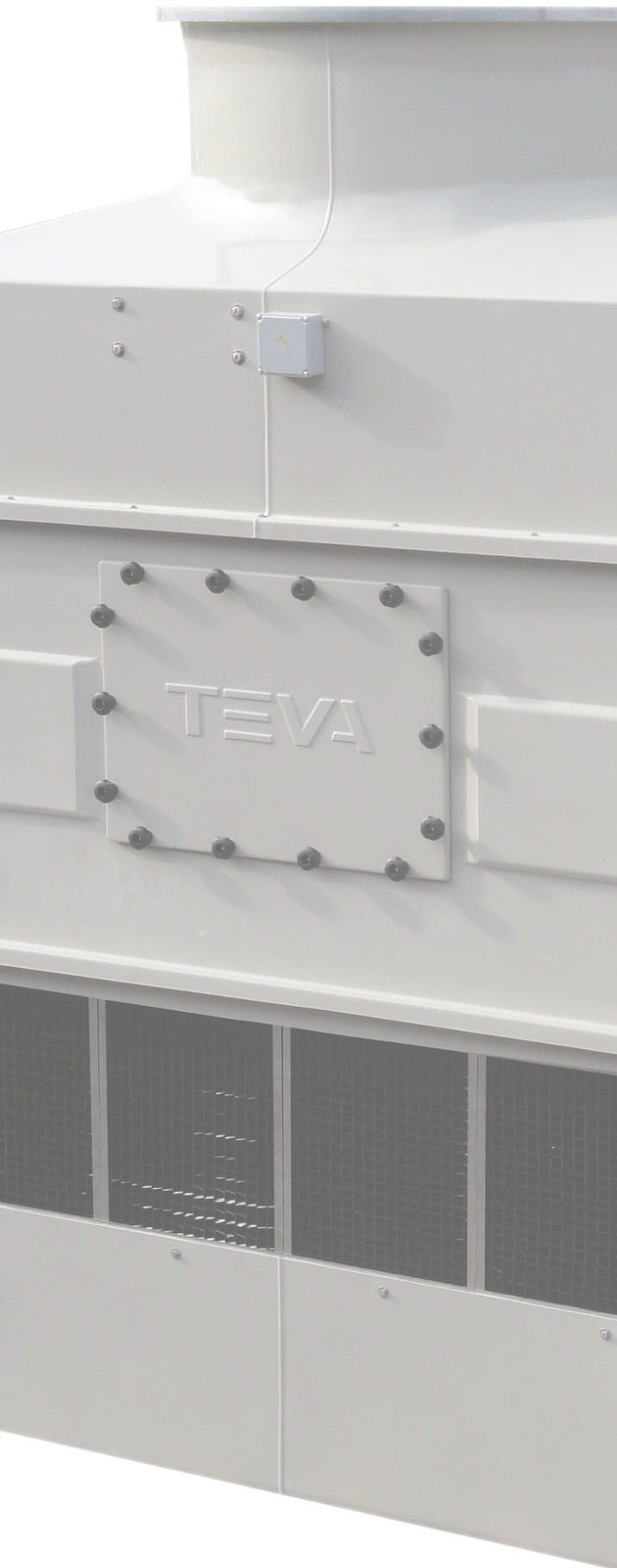
We have been offering cooling solutions to many sectors since 1970, and it is this extensive experience, together with our broad range of products and our vision based on listening to our customers, that allows us to provide each customer with solutions created exclusively for their needs.

Products manufactured by TEVA, using our own designs and technology, include open circuit towers, closed circuit towers, evaporative condensers, adiabatic dry coolers/condensers and regular dry coolers.

All of these are manufactured in metal or GRP versions and equipped with axial or centrifugal fans, which allows you to choose from the most extensive selection on the market when looking for the most appropriate solution for your needs in relation to: temperature, resistance to corrosion, water quality or shortage, energy efficiency, noise level, etc.

Our technical department is available to our customers, working continuously to improve the design, materials and production processes, and we also have a constantly growing sales network comprised of experienced professionals.





**TPA SERIES**

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**TVAP SERIES**

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**TGA SERIES**

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**TVC SERIES**

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**TVAE SERIES**

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**TVAES SERIES**

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**TGC SERIES**

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# TPA

**Capacity of up to  
5,703 nominal kW per cell**



This allows for the almost unlimited addition of cells

Built out of polyester

Pre-assembled modules, reducing transport and assembly costs

There are silent versions available, as well as a version that can be transported by container

The main feature of the TPA range of open circuit cooling towers, manufactured in GRP, is their modular structure, which resolves the problems inherent to high-capacity cooling towers. These mainly relate to transport, time and assembly cost

There are two main types of cooling tower: those supplied pre-assembled which are restricted to a size that can be transported and as a result have limited power; and those assembled on-site, which are generally built out of concrete and which can reach greater powers, but which also have the inconvenience of higher assembly costs and there being no option to expand or move them.

The new TPA range solves these problems:

- It is comprised of pre-assembled modules very easily assembled on-site.
- Being modular, it can be expanded by adding new modules, which attach to the previous ones, achieving almost unlimited power.
- The on-site assembly time is very short, and therefore so is its cost.
- It can be moved if necessary.

## **SLOVINTEGRA ENERGY - LEVICE (SLOVAKIA)**

3 CELLS OF 6,500 KW EACH ONE



## **BIOMASA PLANT - MIAJADAS (CÁCERES)**

5 CELLS OF 5,000 KW EACH ONE





**AUTOCLAVE (MALASIA)**  
4 TOWERS WITH A TOTAL OF 8,000 KW



**HOTEL BE LIVE (PUNTA CANA)**  
AIR CONDITIONING

## TVAP

**Capacity from  
82 to 4,925 nominal kW**

The TVAP range is part of the old TVA range which has been manufactured for almost 40 years, but without a metal structure.

The range has been supplemented with new models that make it possible to reach powers of up to 2,700 kW with a single unit and with a size design that make it possible to transport by container, also making them ideal for export.

Until now, towers manufactured in glass reinforced polyester were small in size, or composed of several units joined together, with or without a metal structure.

The wet section of the TVAP range, comprised of a water gathering basin and the heat exchange and water distribution sections, is comprised of a single piece with no joints of any sort.

The TVAP range has been designed with the special task of guaranteeing, especially in industrial uses, continuous service over a long life and with very low maintenance costs.

Built with polyester that is  
resistant to corrosion

The centrifugal fans are placed  
in an acoustic chamber, which  
is why its noise level is one of  
the lowest on the market



# Open circuit cooling towers

# TGA

Capacity from  
160 to 3,685 nominal kW



Standard construction in galvanised steel sheets

Axial fans directly attached to an energy efficient motor

The main feature of the open circuit cooling towers in the TGA range, comprised of 35 models that go from 160 to 3,685 nominal kW, is their metal construction, which means that they are very flexible and can be adapted to any need of the facilities or any suggestions made by customers and users.

The TGA range of cooling towers can be manufactured in hot-galvanised or stainless steel, can be equipped with as many supplementary inspection doors as required, and their sizes can be easily adapted to the available space, which in turn allows most of the models to be transported by sea in standard High Cube containers.

Our Technical Department, with extensive experience of over 40 years in designing evaporative cooling devices, is there to help companies and users by studying any suggestions.

## ALNUT (VALENCIA)

INDUSTRIAL PROCESS - 2 X 2,000 KW



## INDITEX (TORDERA)

ABSORPTION - 3,000 KW





**SINCROTRON ALBA CELLS (CERDANYOLA DEL V.)**

AIR CONDITIONING - 10,000 KW



**MUSEUM OF THE HUMAN EVOLUTION (BURGOS)**

AIR CONDITIONING - 4 X 1,500 KW

## TVC

**Capacity from  
123 to 1,532 nominal kW**

Until recently, towers built out of plastic resins were constructed mainly for industrial use, which means their noise level was not of concern. The new TVC range has been designed with the main aim of achieving the lowest possible noise level combined with great resistance to outdoor conditions.

The new TVC range is comprised of 34 models with nominal powers ranging from 123 to 1532 kW, all of which can be transported by road without the need for any special permits or on-site assembly operations.

Built with polyester that is resistant to corrosion

The centrifugal fans are placed in an acoustic chamber, which is why its noise level is one of the lowest on the market



# Open circuit cooling towers

# TVAE

**Capacity from  
75 to 3,122 nominal kW**

The TVAE range of cooling towers is the embodiment of the successive and constant improvements achieved thanks to our experience of over 40 years producing a large number of machines operating in the most diverse conditions and uses.

The TVAE range, which can dissipate up to 6,668 nominal kW, is modular, with 1 to 4 stand-alone operating cells connected by a common basin, and has been designed with the specific task of guaranteeing, especially in industrial uses, continuous service with very low maintenance costs, thanks to the use of non-degradable materials.

Built with fibre (GRP) that is resistant to corrosion

Modular with 1 to 4 stand-alone operating cells

Directly attached axial fans



**FORD - ALMUSSAFES (VALENCIA)**  
AUTOMOTIVE INDUSTRY - 4 X 1,700 KW



**FRUTOS SECOS DEL MAÑAN - PINÓS (ALICANTE)**  
COGENERATION - 8,000 KW







**VIDRERES LLET (GIRONA)**  
STERILIZATION - 5,500 KW



**MALL EL CORTE INGLES - (GRAN VIA, BILBAO)**  
AIR CONDITIONING - 12 X 1,050 KW

## TVAES

**Capacity from  
792 to 6,668 nominal kW**



Built with fibre (GRP) that is resistant to corrosion

Modular with 1 to 4 stand-alone cells

Ultra-silent fan directly attached to a motor-reducer. Low noise level with minimal electricity consumption

The TVAES is the result of the evolution of the TVAE range, designed to reduce the noise level.

It has the same benefits as its predecessor, but also includes an innovative and technologically advanced fan that, directly attached to a reducer designed to work at low revs, achieves a significant reduction in the noise level and consumption of electricity.

This system reduces the maintenance costs of the traditional belts and pulleys, as well as energy use. The fan's volute has been reinforced and designed with an aerodynamic shape to improve the way the air leaves the tower.

It has motors that are directly attached, a slope in the tray, can be accessed from all 4 sides to clean the basin and other components, and can include platforms and ladders for easier access.

Sectors: Industry or large air conditioning systems.

# Open circuit cooling towers

# TGC

**Capacity from  
123 to 1,532 nominal kW**

The TGC range includes a wide variety of powers, with 30 models that can meet the requirements of very diverse air conditioning, cooling and industrial process systems.

The centrifugal fans are a guarantee of a low noise level by themselves, and it has been possible to limit the number of these thanks to the different diameters used, leading to a reduction in installed power and maintenance operations. Furthermore, the layout with fans on just one side adds flexibility when installing them as the towers can be attached to walls, leaving the space needed to suction air and conduct maintenance operations on just one side.

As with all our metal evaporative cooling equipment, its standard manufacturing is in galvanised steel with carefully designed additional protection in the form of special painting cycles specifically created for this type of device. On request we can also manufacture them in stainless steel, or with additional protection using our TevaProt system for the basin of the machine.

For all those installations that require an extremely low noise level, the TGC range can be equipped with silencers, both for suction and when discharging the air.



**AUTOMOTIVE INDUSTRY - NAVARRA**  
2,800 KW



Standard construction in galvanised steel sheets

With centrifugal discharge fans

## Accessories



**Accessibility**



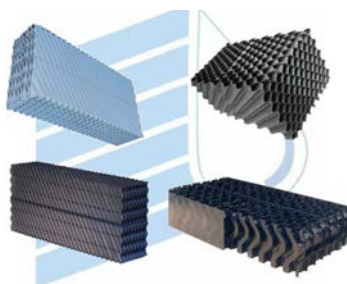
**Electronic accessories**



**Energy saving**



**Silencers**



**Fills and partitions**



**Water treatment**

**Other accessories  
and extras**

# TEVA service



Official mechanical  
maintenance service  
provided by the manufacturer

Tel.: 937 133 573  
E-mail: [tevaservice@teva.es](mailto:tevaservice@teva.es)  
Web: [www.teva.es](http://www.teva.es)



TEVA - Técnicas Evaporativas, S.L.  
Polígono Industrial Can Humet - Pintor Joan Miró 1  
Ap. Correos 10 - 08213 Polinyà (Barcelona)

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