



***EVAPORATIVE COOLING, a natural occurrence***

W-Tech designs and manufactures heat dissipation systems by using adiabatic technology: cooling towers, coolers and evaporative condensers.



### ***Mission***

Sustainable, cost effective and efficient solutions :

- ✓ Worldwide
- ✓ For any climate
- ✓ For any type of installation
- ✓ For any kind of request

### ***Business Area***

- ✓ Refrigeration
- ✓ HVAC
- ✓ Industry (Energy and Cogeneration ,  
Chemical/Pharmaceutical, Metallurgical, Food  
processing, Oil & Gas..)

## Product-range

- Open Cooling Towers
- Closed Circuit
- Evaporative Condensers
- Dry coolers
- W-CARE water treatment system
- Spare Parts
- Auxiliary systems and optionals



	OPEN T		CLOSED R		CONDENSER C	
Axial Forced	<b>TAA</b>	C	<b>RAA</b>	C F DSH	<b>CAA</b>	C F DSH
Axial Induced	<b>TAP</b>	C	<b>RAP</b>	C F DSH	<b>CAP</b>	C F DSH
Centrifugal	<b>TC</b>	C	<b>RC</b>	C F DSH	<b>CC</b>	C F DSH
Centrifugal Low Profile	<b>TCR</b>	C	<b>RCR</b>	C F DSH X	<b>CCR</b>	C F DSH

C = Container  
DSH = Desuperheater or wet coil

F = Finned coil  
X = separate heat exchanger

## ***Construction peculiarities***

- ❖ **W-Tech machines are entirely made of corrosion-resistant materials:** Standard units are built with panels of Magnelis (steel, zinc, aluminum, magnesium) ZM310 for an excellent superficial protection, empirically comparable to a galvanized zinc steel plate of  $1000 \text{ g/m}^2$
- ❖ **W-COAT PLUS (optional)**
- ❖ **W-Tech employs high-efficient, well-designed and well-fitted drift eliminators** (The employed drift eliminators - with the air velocity range of 1 - 4 m/s, allows a passage of drops equal to 0.001% of the droplets present at the entrance)
- ❖ **W-tech systems are fully enclosed** to prevent direct sunlight onto the water and eliminate potential drift



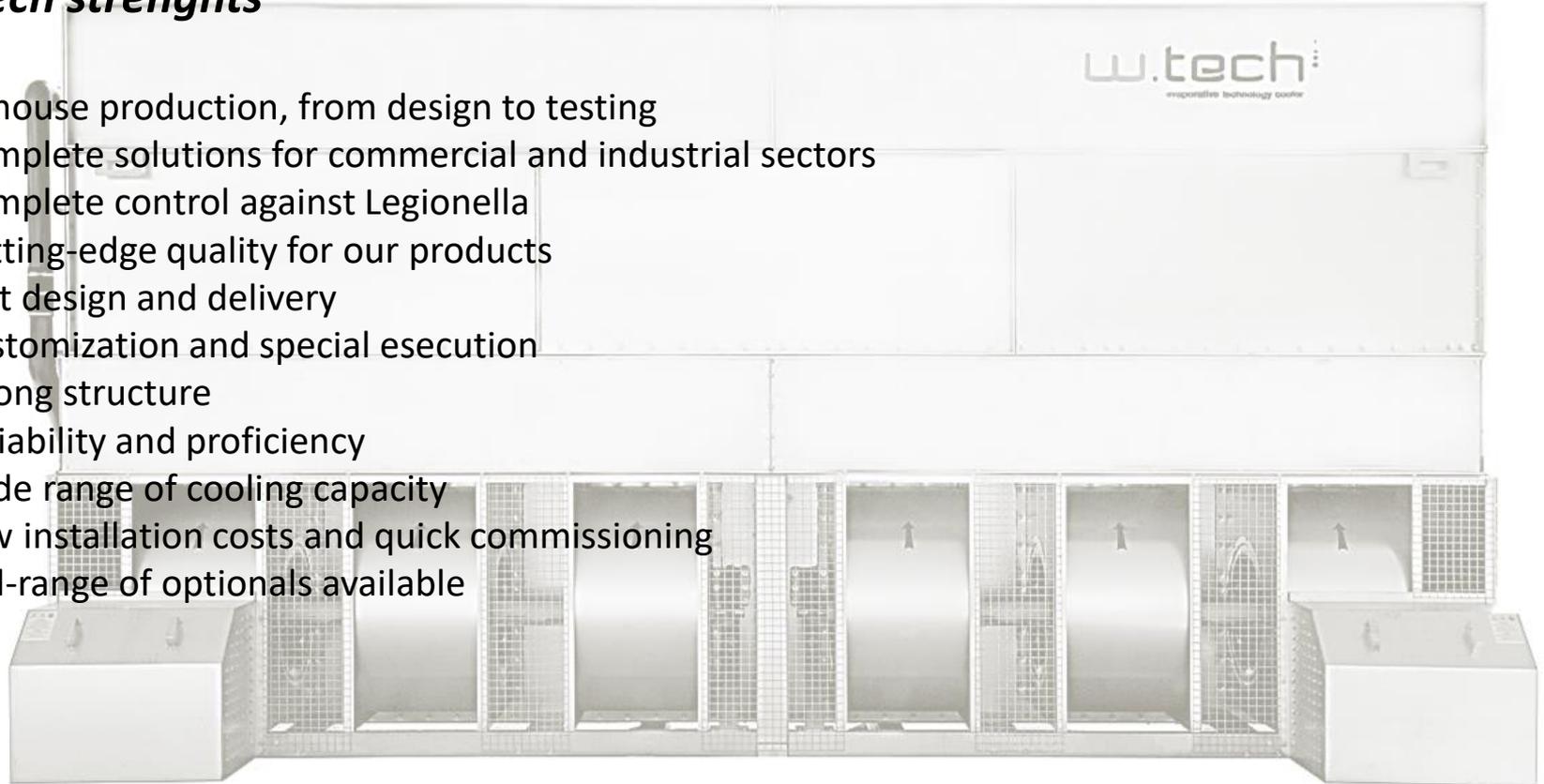
## ***Construction peculiarities***

- ❖ **Standard heat exchange coil** is made by carbon steel pipes of suitable diameter and thickness, and bent as for our own geometry. Standard coil is hot-dip galvanized to ensure a perfect corrosion protection. Coil can be made in AISI stainless steel 304/316. Coil is then tested in accordance to PED-CE rule.
- ❖ **Ventilation system (motors + fans).** Axial fans are built with blades in high efficiency fiberglass reinforced polypropylene (PPG), hub in aluminum, compass and bolts in galvanized steel. Protection fans grids are made in galvanized steel. Motors, with mechanical protection IP56 tropicalized, F insulation class, continue service S1, V6 form, are directly connected to axial fans.
- ❖ **W-Tech fill pack & drift eliminators** are of PVC or PP, presenting a great resistance to the majority of chemicals and biological aggression. They are chosen (12mm, 19mm, 27mm or bigger) based on expected water quality, to minimize fouling and poor water distribution of water that might encourage Legionella propagation.

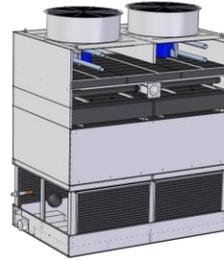


## ***W-Tech strenghts***

- In-house production, from design to testing
- Complete solutions for commercial and industrial sectors
- Complete control against Legionella
- Cutting-edge quality for our products
- Fast design and delivery
- Customization and special esecution
- Strong structure
- Reliability and proficiency
- Wide range of cooling capacity
- Low installation costs and quick commissioning
- Full-range of optionals available



**With over 20 years of experience, W-Tech identifies clients specific needs and provides them with right solution through a wide range of advanced and efficient products**



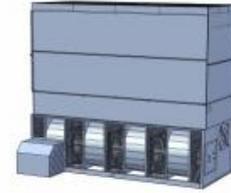
## COOLING TOWERS

		Capacity (kW)	Air entry	Sound level	Maintenance	Energy Efficiency	Installation
TAA	<i>Towers designed with axial fans placed at the top of the unit. Main advantage: reduced power consumption and easy layout requirement.</i>	110 - 7495	Forced				
TAP	<i>Cooling tower using axial fans but with them placed at eye level, instead of being at the top. Practical advantages in case of maintenance. Electrical section of the cooling tower is placed outside the air flow.</i>	45 - 2365	Forced				
TC	<i>Centrifugal fan cooling towers. This well known design is very quiet and suitable for installation with silencers for further noise reduction or where specific duct-work is needed.</i>	67 - 4536	Centrifugal				
TCR	<i>Reduced height cooling towers with centrifugal fans. Suitable for indoor installation and for installations with limited space.</i>	180 - 2050	Centrifugal				

RAA



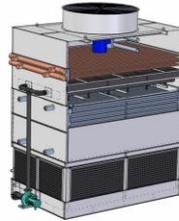
RC



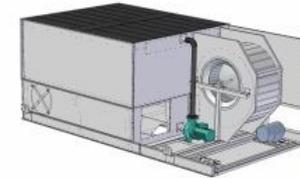
## CLOSED CIRCUIT COOLERS

		Cooling (kW)	Air entry	Sound level	Maintenance	Energy efficiency	Installation
RAA	<i>Designed with axial fans placed at the top of the unit. The construction is made of strong galvanized steel properly reinforced to tolerate the weight of the coil.</i>	70 - 2000	Forced				
RAP	<i>The unit is accurately stiffen due to the increased weight of the exchanger coil, providing a better support. Good air distribution that optimizes the performance.</i>	150 - 700	Forced				
RC	<i>This series follows the typical design of centrifugal fan units. Very quiet and suitable to combine with silencers to further reduce noise levels.</i>	45 - 3600	Centrifugal				
RCR	<i>Reduced height system with centrifugal fans. Suitable for indoor installation, with or without duct-work, and the ideal solution for installations with limited space.</i>	60 - 750	Centrifugal				

CAA



CCR



## EVAPORATIVE CONDENSER

		Capacity (kW)	Air entry	Sound level	Maintanance	Energy efficiency	Installation
CAA	<i>Axial fan evaporative condenser significantly reduces energy consumption. Exchange coils, manufactured in galvanized steel, are PED certified</i>	215 - 5080	Forced				
CAP	<i>These evaporative condensers follow the same design of the AP units. High dissipation value of powers may be easily an simoly achieved.</i>	730 - 1480	Forced				
CC	<i>The CC evaporative condensers are designed to work with centrifugal fans, resulting in a significant reduction of noise levels.</i>	140 - 3670	Centrifugal				
CCR	<i>Reduced height and centrifugal fans. This unique design makes this series suitable for indoor installation, with or without duct-work.</i>	120 - 1300	Centrifugal				

## Water Treatment

- **W-Care** water treatment is ideal to control scale and biological pollution during normal operation. The system is extremely easy to use and delivered pre-assembled on skid, fully wired (IP65) and includes an initial supply of chemical products.
- **W-Care** is provided in two version:
  - **Advanced**: manages the draining of the water inside the evaporative system through the use of a digital conductivity. It also manages the dosing of antiscala/anticorrosive proportionally to the water consumption as well the dosing of biocide at programmable intervals. This type of system optimizes consumption of water and chemicals, and extends the life of the entire system.
  - **Basic**: good solution with good quality/price ratio, designed for small units and able to ensure a bivalent protection. This type of system optimizes the consumption of water and the chemical product making longer the life of the entire system.





## ***W-Tech International***

Also:

- USA (Texas)
- Peru
- Saudi Arabia
- Marocco
- Tunisia
- Giordania
- Tunisia
- Central America

## *W-Tech installations puzzle*





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evaporative technology cooler