

# GOLDEN SERIES

■ UNIQUENESS

■ INNOVATION

■ RESULT

## **GOLDEN SERIES**

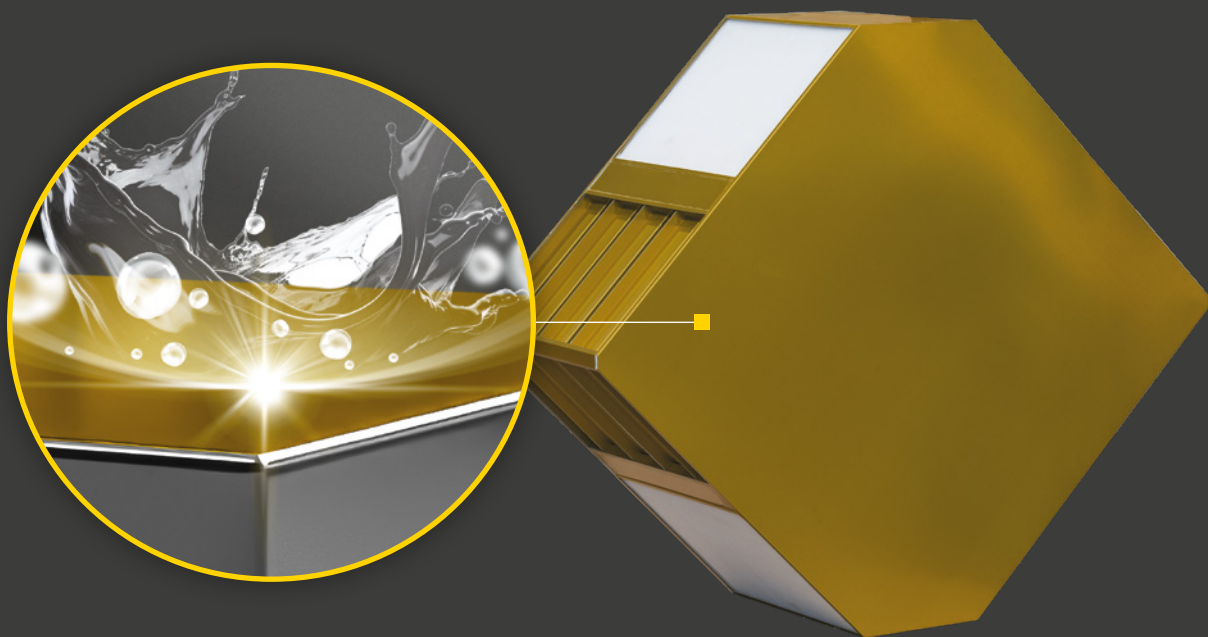
Introducing our latest innovation, the Golden Series of ZERN ENGINEERING air-to-air heat exchangers, where cutting-edge technology meets unparalleled durability. The hallmark of this range is the anti-corrosion epoxy coating that adorns the aluminium bodywork, giving it a distinctive golden hue that is not only eye-catching, but also the pinnacle of corrosion resistance.

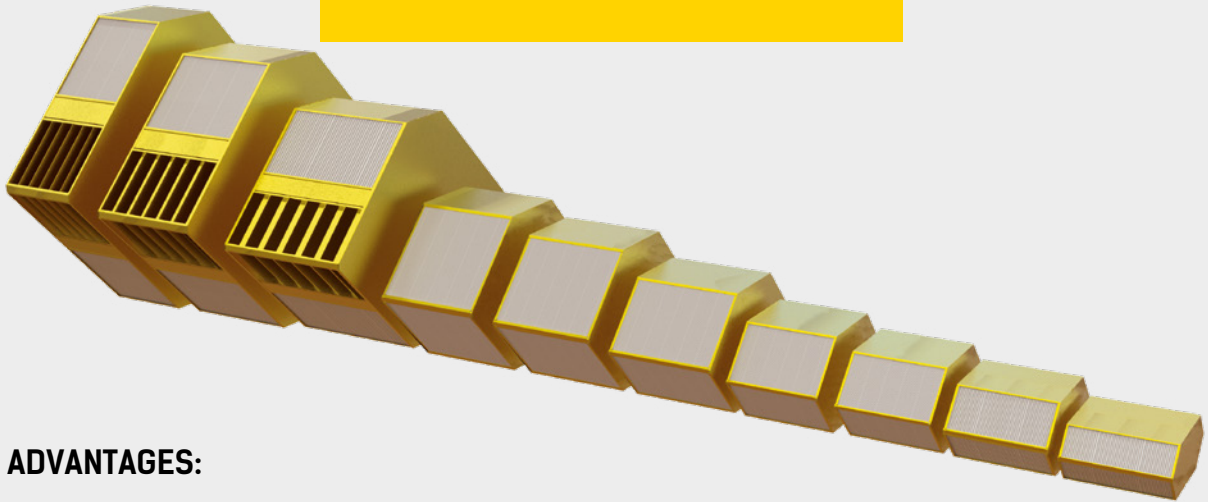
## **THE ESSENCE OF MODIFICATION: FORTIFIED AGAINST THE ELEMENTS**

In environments where traditional heat exchangers succumb to corrosion, our Golden Series is resilient. The aluminium body undergoes a meticulous process of epoxy coating, forming a protective shield against corrosive elements such as chlorine from swimming pools, saline environments, coastlines, kitchens or industrial applications that require heat exchanger protection. This modification ensures extended life and optimum performance even in the harshest conditions.

## **HOW DOES THE EPOXY COATING WORK?**

The epoxy coating is a state-of-the-art formulation designed to create a robust barrier between the aluminium surface and corrosive agents. It acts as a shield, preventing oxidation and corrosion, while the golden colour not only adds a touch of sophistication but also serves as an indicator of the advanced protection it provides.





## ADVANTAGES:



Corrosion  
resistance  
according  
to **ASTM B117**



Saline solution  
resistance  
(NaCl 5%/35 °C) –  
**up to 1 000 hours**



Kesternich test  
resistance  
(0.2 l SO<sub>2</sub>) –  
**up to 15 cycles**

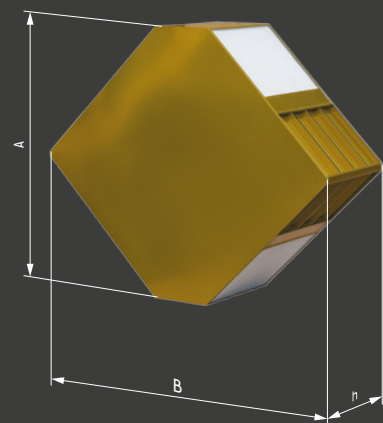
## DURABILITY UNLEASHED: WHY AND HOW LONG DOES THE PROTECTION LAST?

The epoxy coating not only resists corrosion, but also stands the test of time. Rigorous testing has shown that this protective layer ensures longevity far beyond that of conventional heat exchangers, making it an investment that will pay dividends for years to come.

Tests conducted in accordance with international standards have shown that epoxy coated aluminium surfaces exhibit corrosion resistance that allows them to last approximately 4 to 7 times longer than their uncoated, conventional aluminium counterparts in corrosive environments.

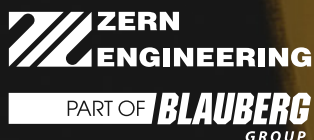
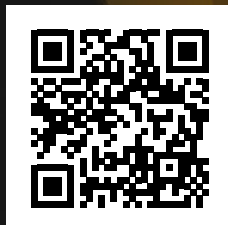
## OVERALL DIMENSIONS

Name	Geometry [mm]			Casing modification	Plate material
	A	B	h		
...-EX6 172	172	397	100-600	4	PS
...-EX6 230	230	455	100-600	4	PS
...-EX6 271	271	496	100-600	4	PS
...-EX6 312	312	537	100-600	4	PS
...-EX6 394	394	619	100-600	4	PS
...-EX6 477	477	700	100-600	4	PS
...-EX6 533	533	758	100-600	4	PS
Combi ...-EX6 815	815	1040	100-600	4	PS
Combi ...-EX6 959	959	1182	100-600	4	PS
Combi ...-EX6 1089	1089	1314	100-600	4	PS



## CASING DESIGN

**4** – aluminium epoxy coated (GOLDEN)



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