



# COPPER-NICKEL VACUUM BRAZED COLD PLATE



## RUGGED COOLING SOLUTIONS FOR CORROSIVE WATER ENVIRONMENTS

- MILITARY • MARINE
- WATER & WASTE WATER
- OPTIMIZED COOLING DESIGN
- LONG LASTING AND LEAK FREE

# COPPER-NICKEL AQUAMAX COLD PLATE

In many naval, military, marine or water related treatment plants, the only access to water for cooling of drives power electronics comes from using on hand corrosive water or water enriched with high levels of oxygen. The use of corrosive non-treated water as cooling medium in aluminum or copper cold plates can quickly lead to pitting or crevice corrosion inside the cold plate water channels, resulting in leaks and compromised cooling.



Mersen's Copper Nickel 90/10 and 90/30 alloys vacuum brazed Cold Plates offer superior resistance to seawater and other harsh water applications, eliminating the need for expensive separate coolant loops. Mersen has mastered vacuum brazing technology to achieve a guaranteed seamless water tight design resulting in an extremely robust and flux free heat sink with excellent thermal performance.



## Benefits:

- Flux free – No contamination
- Optimized cooling path underneath electronic modules
- High thermal performance
- High pressure capability



**Mersen designs and builds prototypes to ensure our customers' performance needs are met.**

Please contact us at  
Thermal.MIS@  
thm.mersen.com  
or call us at  
+ 1 905 795 0077



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