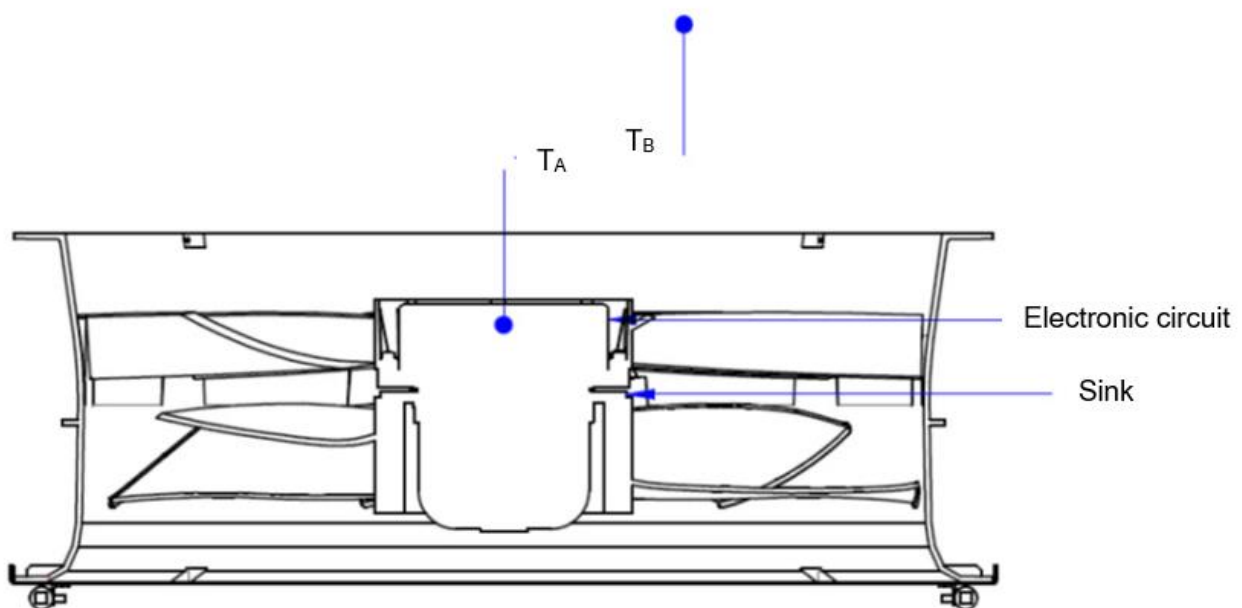


EC FANS

ECOSS STAINLESS STEEL EVAPORATIVE CONDENSER

The EC fans (electronically commutated), feature an external rotor motor with permanent magnets and an embedded electronic system that requires moisture control at the electrical box, so the electronic components of the system do not get damaged. To avoid problems related to moisture inside the electronic circuit of the motor, it is necessary to always keep a difference in temperature between the inner part of the electrical box (T_A) and the ambient temperature, that is, it is necessary $T_A > T_B$, according to picture 1.



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Figure 1 – EC Fan

When the fan is running, this always happens, because of the motor heating. However, when the fan is not running, this condition is not guaranteed, what can cause the condensation of the residual moisture inside the electrical box of the EC motor. Therefore, the EC fans must always be connected to the power supply with a minimum operational rotation in order to keep the inner temperature higher than the outer temperature. To ensure that, it is necessary to set the GMM to operate with a minimum rotation of 10%.

Important!

Moisture condensation due to complete shutdown of fans does not constitute a warranty.

For more information, refer to our technical department.