

## HBR series: closed circuit hybrid coolers (wet and dry cooling)

- **Unique design on the market** (*European Patent pending*): Peculiar geometry and parallel position of the two heat exchangers; one or more reversible ventilators; gravity aluminium overpressure dampers
  - **Extremely reduced consumptions:** HBR is designed in order to consume the bare minimum. Within the space of a year it exploits the most appropriate cooling method depending on the different climatic conditions
  - **Maximum efficiency of wet function (summer):** The fluid flows inside the smooth tubes heat exchanger and it is cooled by evaporation. The finned tubes' coils are in stand-by and they are located outside the saturated air flow, sucked by the ventilators
  - **Maximum efficiency of dry function (winter):** The fluid flows inside the finned tubes heat exchangers and it is cooled by air. The smooth tubes' coil is in stand-by and it is outside the warm air flow pushed by the ventilators. Only the necessary energy for the air circulation through the finned coils is consumed
- In both cases the air flow is not "influenced" by the stand-by heat exchanger presence and the pressure drop is reduced**
- **Cost-effective control:** The system is electronically controlled by a PLC. It can be supplied pre-wired on the unit's side (in the factory) or it can be provided by the customer.

