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DATI

PLACE:
Milano EXPO 2015

DESIGN PERIOD:
2014

CONSTRUCTION PERIOD:
2014 - 2015

CLIENT:
Angola Republic
Atlantic Alliance
Masterplan Studio srl
ETS spa

System Design



The building consists of three floors, the design was carried out in order to achieve the following aims set by the Commission: very high energy performance building, high levels environmental comfort, good indoor air quality; possibility of system implementations, compatibility with the general economic situation.

In addition, systems have been designed in order to ensure:

- a high level of reliability, systems are able to cope with emergency or out of order situations of entire sections of systems, with recovery times of the service limited to the timing of automatic or manual switch; an ordinary maintenance for a better resolution of the problems;
- flexibility and modularity of the system to ensure the highest possibility of reconfiguration without creating inconveniences to users, to allow easy access for inspection and maintenance of various equipment;
- system safety, both against the dangers to people or things, both in terms of protection in case of fire or other events unrelated to the use of electricity;
- high degree of functionality and comfort for employees, obtained by an appropriate choice of lighting levels and lighting fixtures

The air conditioning system is made with VRF technology that uses only two copper pipes for distribution.



The indoor units to spread hot / cold air consist of 4-way VRF unit installed in ceiling, built-in wall units or wall units for technical locals that have to be cooled. The primary air is introduced into the environment with dedicated diffusers. We opted for high efficiency water condensed external units in order to obtain a stable high EER and COP values and limit the electrical input of the VRF system.



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