EUROTEC

SYSTEM

CLOSED LOOP CIRCUIT

Intelligent energy recovery

Intelligent energy recovery

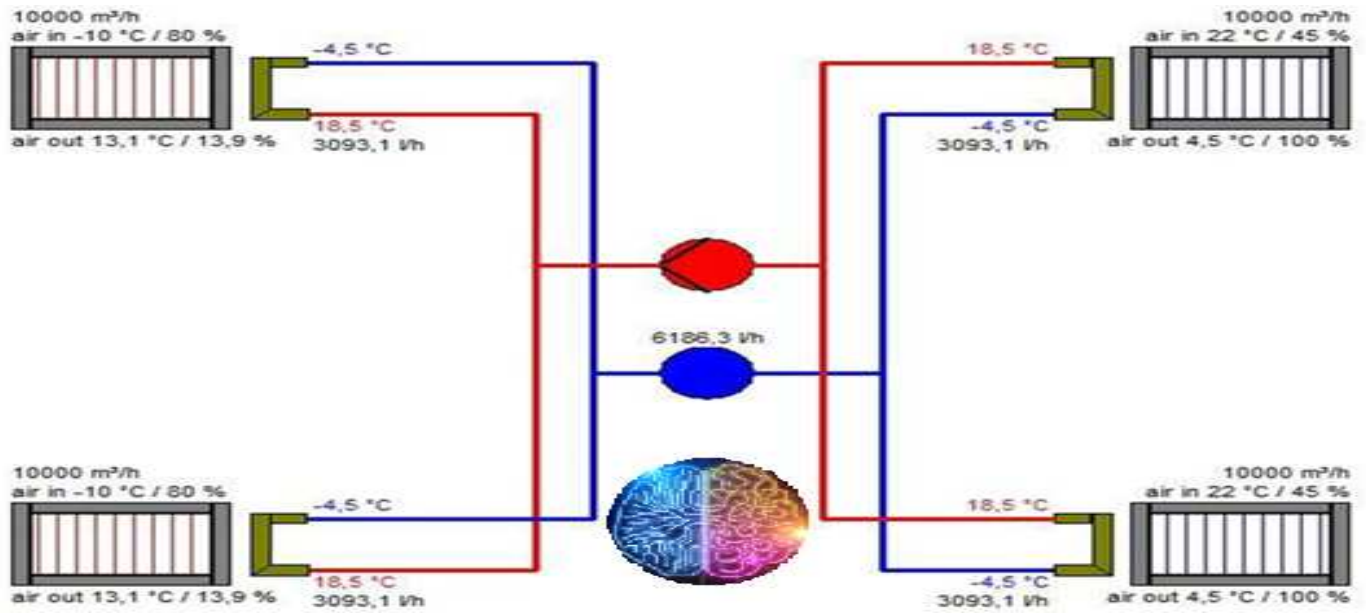
The requirements for air conditioning technology are as demanding as the concepts of technical construction. Modern air conditioning systems should be resource sustainable and energy efficient. With the aim of minimizing energy consumption in the long term, without sacrificing comfort criteria. All laws, rules and regulations are the measure of all things.

The classic closed loop system with relatively low efficiency has been further developed from an optimized selection of components for energy recovery with high efficiency and low pressure losses on the air side.

The innovative system offers highly efficient energy recovery technology in the circular network for spatially separated supply and exhaust air systems.

In a closed loop circuit, an intermediate fluid, by means of a pump, is made to circulate between two or more high efficiency coil exchangers. The heat transferred by the warmer air current to a coil is transported by the fluid intermediate to the other battery and from this yielded to the colder current.

In fact, this system makes it possible to recover heat from several sources spaced from each other and there is also no need to locate the intake air intake and the exhaust air exhaust close to each other. The complete physical separation between the two flows and the consequent exclusion of any danger of contamination make these systems suitable for uses such as: hospitals, operating theaters, clean rooms, laboratories, food where very high requirements for hygiene are required. industrial air technology for energy recovery from process heat and for exhaust gas heat recovery.



Through our Flowbox hydraulic system - the energy contained in the air stream is transferred to the other air stream. In addition, the multifunctional heating or cooling energy can be fed into the flowbox. There is almost no limit to the choice of energy sources. In particular, renewable energy resources significantly improve efficiency. In order to achieve the best efficiency, we not only have highly optimized components for energy efficiency. But with our control system we have a control system for the intelligent grid and the control of all the individual components. With our control system, we optimize efficiency, but we also reduce costs over time.