

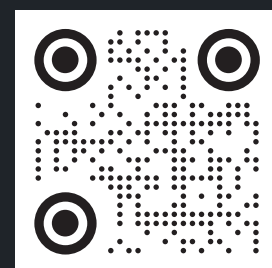
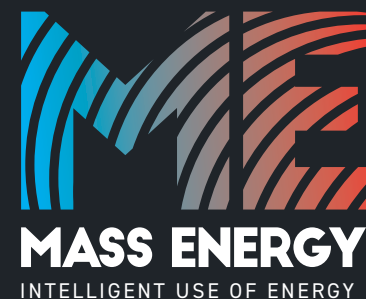
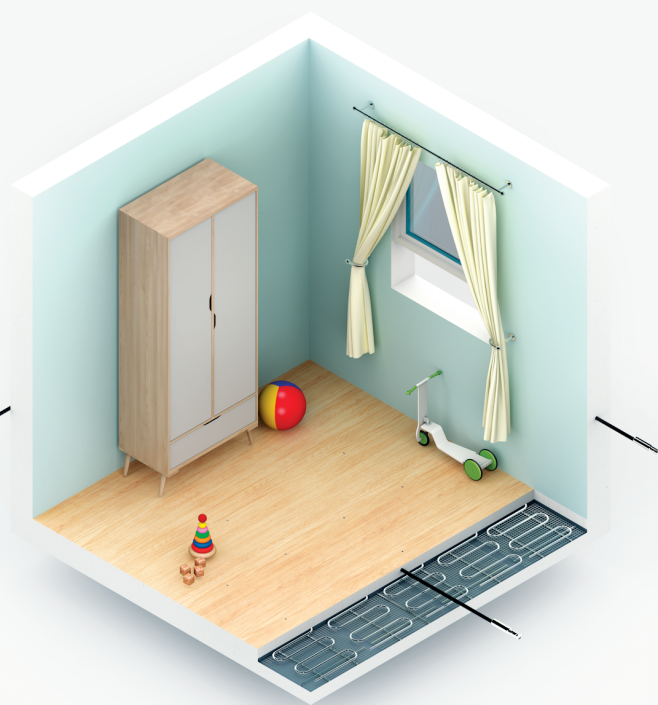
New buildings and renovations: today, **energy efficiency** is at the centre of the design project to meet the demands of the **consumer**, the **market** and the **planet**.



For this reason, **Mass Energy** has created **TFD 8+**: an advanced turnkey system for civil, industrial and hospitality buildings that guarantees a saving of more than **60%** over **20 years**, compared to other solutions on the market.



TFD 8+ is the first integrated energy control system for heating, cooling, treating and purifying the air and producing hot water for domestic use.



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Located on the outskirts of Milan, **Mass Energy** specialises in **energy problem solving**: we support designers, technicians, installers and private citizens in the design, realisation and installation of intelligent energy efficiency solutions for civil, industrial and hospitality buildings.



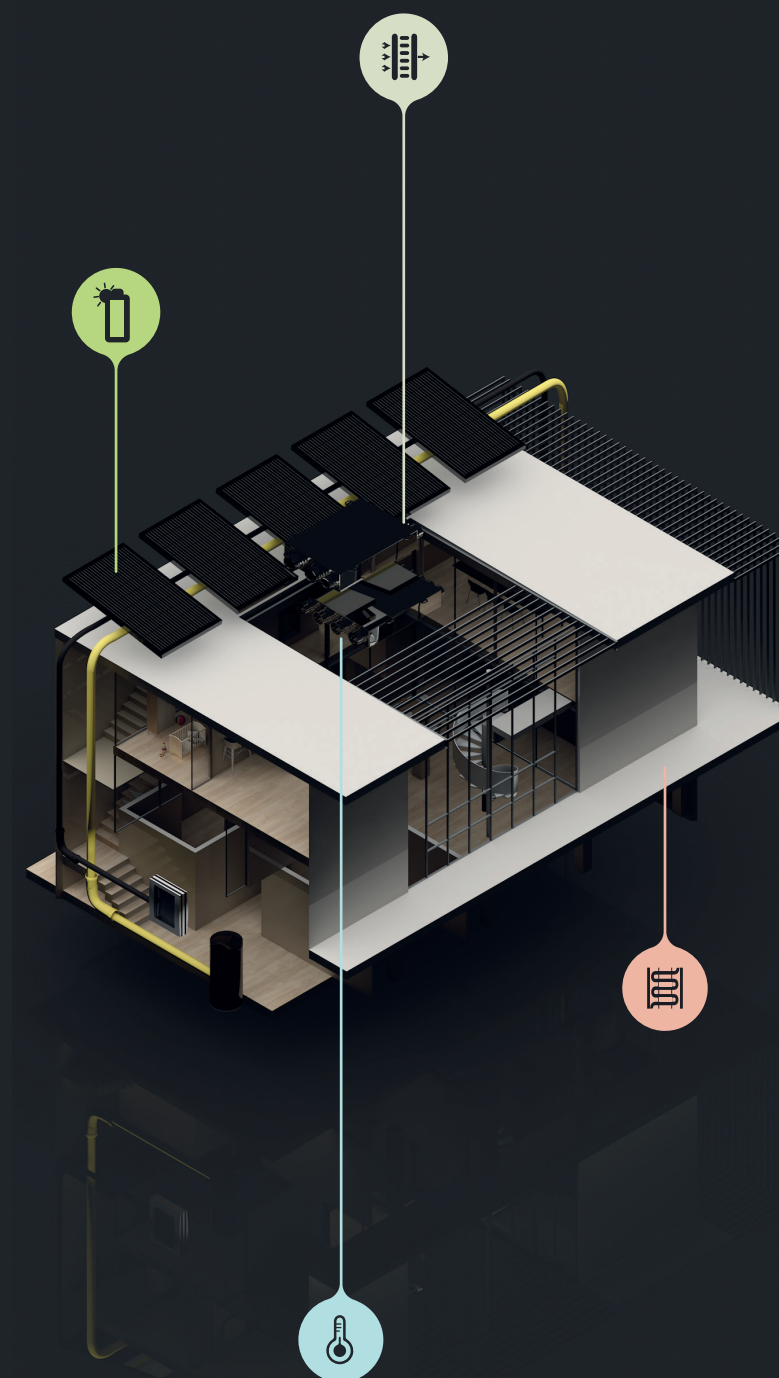
Combining the study of materials, thermodynamics and advanced electronics, our research team has created **8+**, the first **Intelligent Integrated Ecosystem** for heating, cooling and sanitizing the air in homes, offices, leisure centres, places of worship and industrial facilities.



Mass Energy technologies are **100% green** as they significantly reduce consumption using solar energy with "**zero emissions**".



Mass Energy makes the present time more sustainable: we protect and safeguard future generations and the planet's natural resources, starting from now!



INTELLIGENT USE OF ENERGY





TFD BUILDING is an electric radiant heating system, equipped with an intelligent unit that detects and records, in real time, temperatures and consumption in every single thermal zone, compares them with the stored data and calculates the best energy supply time in each area of the house.



It only takes a few minutes after switching on to perceive the under floor heating. Compared to traditional heat pump systems and condensing boilers, TFD BUILDING has no loss of performance over time and requires no maintenance. The energy consumption saving ranges from 10% to 20%, and operating and maintenance costs are reduced by 60% over 20 years.



In the event of excessive energy consumption, a network analyser detects the overload, temporarily reduces the supply of electricity to TFD BUILDING thus favouring household appliances and preventing the sudden disconnection of the meter.



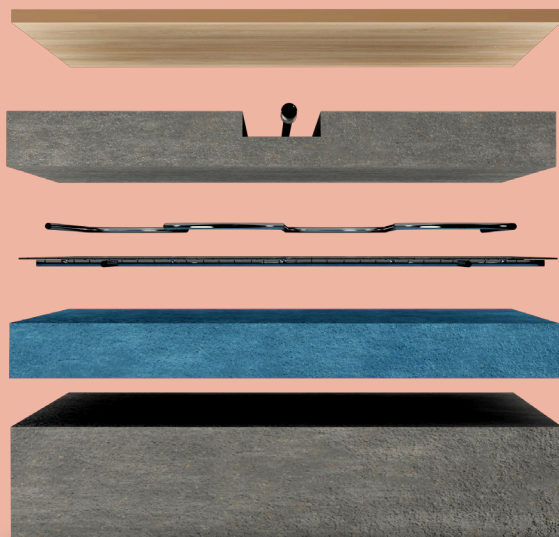
The Open Window function temporarily blocks the supply of energy to the flagged area and avoids any waste of energy.



TFD BUILDING is compatible with any kind of home automation system and can be used via app and web server with a remote assistance service.



The absence of air convective motions prevents the fluctuation of dust and allergens and the onset of mould.



TFD CLIMA consists of an air treatment unit, which using sensors, constantly controls the appropriate presence of oxygen, humidity and temperature and is fitted with a **free-cooling** and **by-pass** function for air recycling in offices and homes. Together with a **Booster technology**, a regeneration and air treatment device, TFD CLIMA air-conditions areas of over 1,000 sqm and guarantees the correct supply of oxygen in every room.

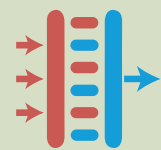
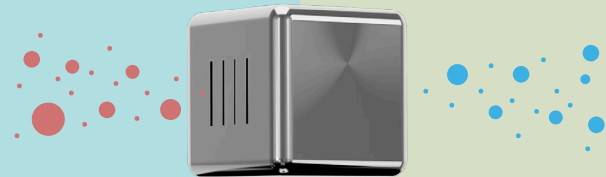


TFD CLIMA encloses, in a contained space, functions usually performed by several devices. Its **double crossflow system** enables the recovery of most of the calories and air frigories when expelled. The by-pass function recycles the air when a new air supply is not required. The **"free-cooling"** and **"free-heating"** functions guarantee adequate climate control, with no waste of energy, when the desired air temperature in the room is similar to the atmospheric one. The **hydronic thermal exchange battery** uses hot water to heat rooms at zero cost and also fulfils the function of cooling and dehumidification using a heat pump connection.



TFD CLIMA can be used via **app** and **web server** with a **remote assistance** service and can be integrated into the whole TFD 8+ system.

The **quality of air** in every room is constantly improved and monitored by an advanced electronic technology, which allows **air renewal only when necessary**, optimizing and minimizing energy costs.



TFD MOLECULAR is an **air sanitizing system** designed to clean up molecules from pollutants, pollen, viruses and bacteria, returning it to its natural purity **without releasing residual substances into the atmosphere**.



Compared to traditional sanitizing systems, **no maintenance is required**.



It's a static object working exclusively thanks to **natural processes** and necessitates no energy supply in order to operate and therefore does **not require any operating nor maintenance costs**.



Inserted into a special slot inside TFD CLIMA, TFD MOLECULAR guarantees complete air sanitizing during recirculation and supplying of fresh air.



TFD ENERGY is an electric and thermal energy production system that uses a state of the art high-performance **photovoltaic thermal hybrid panel**.



By using solar radiation and the same surface as a traditional photovoltaic panel, the system produces **300W of electric energy** and **980W of thermal energy**, obtaining completely clean energy at no cost.



The electric and thermal energy obtained **can be used directly or accumulated**. The thermal energy can fully satisfy the need for domestic hot water and, in case of excess heat, it can power the air treatment unit TFD Clima to heat rooms at **no extra cost**.



Producing electricity and heat with TFD ENERGY means protecting the planet: it is a **"zero emission"** technology that doesn't release any CO2 into the atmosphere.

