

System Brochure

REC+

Combined
Heat&Power





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SYSTEM INFORMATION

REC+ (Recovery Energy Cycle) is an energy system designed to dramatically reduce the energy costs of medium and large energy consumers, which operate all year round and which simultaneously consume electric and heating energy or electric and cooling energy. It is a compact system that can be installed outdoors or indoors. It is based on the principles of cogeneration and trigeneration, or in other words, it delivers

two or more kinds of energy simultaneously. Its core is an internal combustion engine which can be powered by different kinds of fuel – ideally natural gas, but other possibilities are diesel, LPG, biogas, biomethane, depending on the most cost-efficient fuel option available. In addition to lower energy costs, **REC+** ensures drastic reduction of CO₂ emissions, as well as lower dependence on the grid.

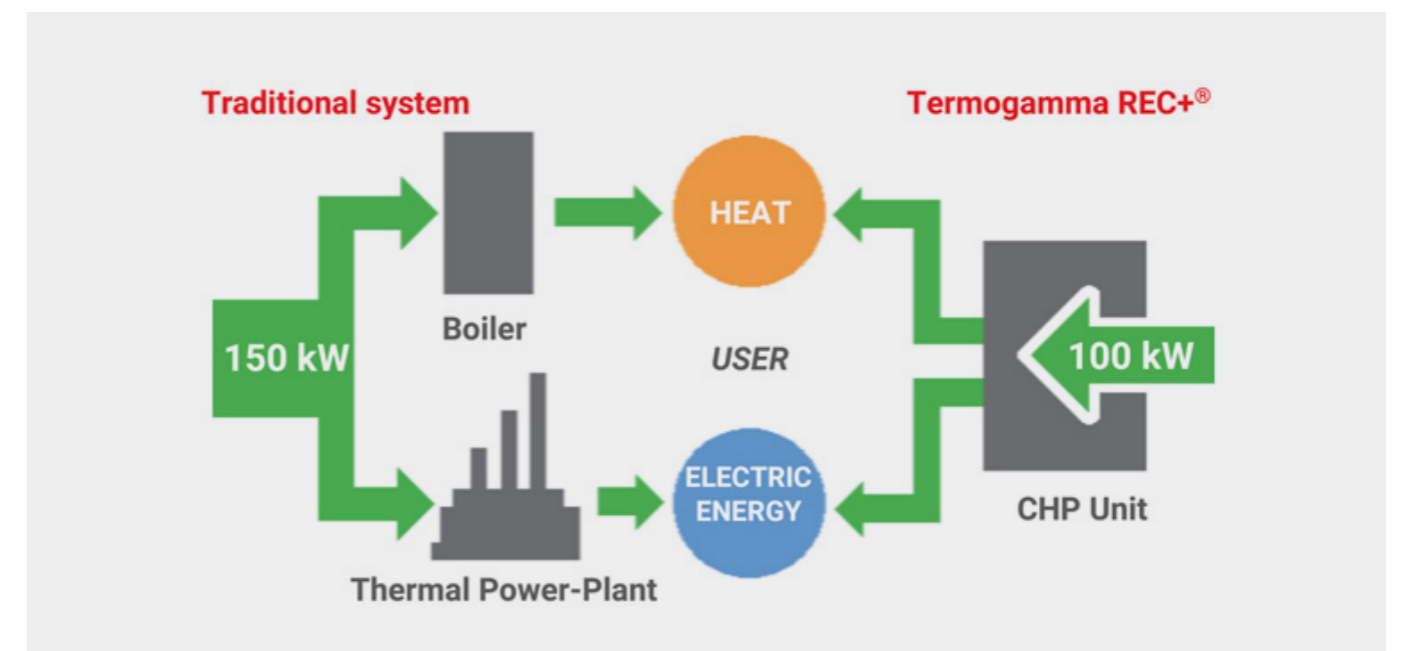
MAIN FIELDS OF APPLICATION ARE

- ✓ INDUSTRIAL FACILITIES (food conservation, pharma, plastic, textile, chemical, ...);
- ✓ HOSPITALS, HOTELS, SWIMMING POOLS AND SPAS, DATA CENTERS;
- ✓ AIRPORTS, GOVERNMENT FACILITIES, PRISONS, SCHOOLS AND UNIVERSITIES;
- ✓ SUPERMARKETS AND SHOPPING MALLS;
- ✓ DISTRICT HEATING/COOLING.



BENEFITS

- ✓ **REC+** is a COGENERATION (CHP) system that SIMULTANEOUSLY produces both ELECTRICITY and HOT WATER (90°C) and/or STEAM (FREE WASTE HEAT);
- ✓ It can be combined with absorption systems in order to produce also FREE CHILLED WATER (7°C);
- ✓ **INCREASES ENERGY EFFICIENCY:** it reduces fuel consumption for heat and power production by 30% to 50% when compared to centralized power plants;
- ✓ **REDUCES GREENHOUSE GASES EMISSIONS (CO₂)** thanks to its small environmental footprint;
- ✓ **INCREASES QUALITY** on power supply;
- ✓ **PRODUCES FINANCIAL SAVINGS** in utility bills;
- ✓ **EASY TO INSTALL (Plug&Play)** and ready for **REMOTE MONITORING**;
- ✓ **FULL SERVICE MAINTENANCE** with **WARRANTY EXTENSION**.



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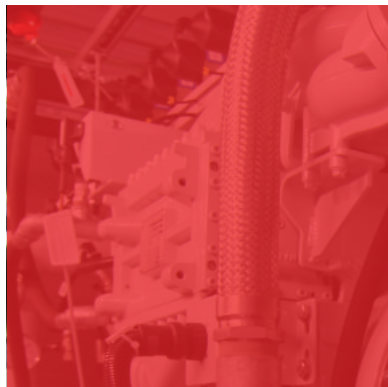
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