

Title (en)
MODULAR MULTI-ENERGY THERMODYNAMIC DEVICE

Title (de)
MODULARE THERMODYNAMISCHE MULTIENERGIEVORRICHTUNG

Title (fr)
DISPOSITIF THERMODYNAMIQUE MULTI-ÉNERGIE MODULAIRE

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Abstract (en)
[origin: WO2011015731A1] The invention relates to a system (1) for simultaneously producing very hot water at a temperature T2, hot water (14) at a temperature T1, and/or cold water (13) at a temperature T3, and electricity (20), and optionally, producing a refrigerant at an evaporation temperature T4, and/or producing a refrigerant at an evaporation temperature T5, and including at least one current-generating unit that includes a combustion engine (2) connected to an alternator (18) or to a fuel cell, and said system (1) also including at least one heat pump (3), or a refrigeration unit and optionally an electrical battery (19), said system (1) being characterized in that (a) the compressor (17) or the circulation pump is driven by an electric motor, which may be powered by one of said current generators, and in that (b) said system (1) includes at least one module Pc referred to as a #heat pump module# (36) or at least one module Pr referred to as a #refrigeration module# or at least one so-called "mixed" heat pump and refrigeration module Pm, and in that said generator unit is inside a generator module (G), each of said modules (G1Pc, Pa, Pr, Pm) being provided with a frame and a unit forming an assembly interface that are produced such that said modules (G1Pc, Pa, Pr, Pm) can be assembled together, one after the other, to form a single unit.

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