

Title (en)
FUNCTIONAL SYNERGIES OF THERMODYNAMIC CIRCUIT PROCESSES AND HEAT SOURCES

Title (de)
FUNKTIONSSYNERGIEN VON THERMODYNAMISCHEN KREISPROZESSEN UND WÄRMEQUELLEN

Title (fr)
SYNERGIES FONCTIONNELLES DE CYCLES THERMODYNAMIQUES ET DE SOURCES DE CHALEUR

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Application
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Abstract (en)
[origin: WO2017067790A1] The system according to the invention comprises a heat source and a cooling device for discharging the heat from the heat source, wherein the cooling device comprises: a heat exchanger/radiator for transferring heat to a surrounding medium, in particular wherein the radiator is an air cooler and the surrounding medium is air; and a thermodynamic cycle device, in particular an ORC device comprising a working fluid, an evaporator for evaporating the working medium by transferring heat from the heat source to the working medium, an expansion device for generating mechanical energy, and a condenser for condensing the working medium expanded in the expansion device; wherein the cooling device additionally comprises a condenser-coolant circuit for discharging heat out of the condenser of the thermodynamic cycle device via the heat exchanger/radiator. The method according to the invention is suitable for discharging heat from a heat source with a cooling device.

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