

The invention relates to heat and cooling engineering and can be used in engineering of gas liquefaction, for construction of heating systems, ventilation and conditioning, for utilization of low-potential heat of natural and technogenous origin. A method for obtaining cold and heat from low-potential heat sources provides increase of operation characteristics through increase of cooling of heating coefficient, according to type of use, in wide range of drop of temperature levels. In the case of use of heat pumps that function according to method proposed capacity ratio is decreased since there is no need in earth heat contour, wells, etc. Main point of the invention is in change of character of interaction of combined installations of type of heat transformer consisting of heat pump and motor. Change of character of interaction is in exchange of heat and mechanical energy at different sections of combined thermodynamical cycles, this makes it possible to obtain mechanical work by heat pump from cooling environmental air.