

LONG THERMOSYPHONS FOR DIFFERENT APPLICATIONS

**Leonard. L. Vasiliev^{1*}, L. P. Grakovich¹, M. I. Rabetsky¹, Leonid. L. Vassiliev Jr.¹, A. S.
Zhuravlyov¹
A. V., Shapovalov², A. V. Rodin²**

¹Heat and Mass Transfer Institute,
National Academy of Sciences of Belarus
15 P. Brovka str., 220072, Minsk, Belarus
*Email: lvasil@hmti.ac.by

²Department of industrial Heat Engineering and Ecology
Gomel State Engineering University,
Gomel, Belarus

Abstract

Thermosyphons of the long length are of great interest for being used as heat exchangers for recuperation of alternative energy sources and upgrading their potential with the aid of heat pumps. In this presentation some examples of the use of two-phase thermosyphons in combating snow drifts and icing on the active parts of the railway transport track structure, air conditioning systems, foodstuff baking ovens and roasters, driers, etc. are given. It is concluded that thermosyphons for the ground heat exchangers and seasonal thermal storage systems connecting with solar thermal collectors, are extendable to more comprehensive applications