

THE CONCEPTION AND STUDY OF THE PERFORMANCES OF A NEW TIPE OF LITHIUM BROMIDE- WATER ABSORBTION HEAT TRANSFORMER

Sava PORNEALA, Steluta DINU
University "Dunarea de Jos" of Galati, ROMANIA
Domneasca Str, Nr.111.tel.0236/414871, fax 0236461353
e-mail: sava.porneala@ugal.ro , sdinu@ugal.ro

ABSTRACT

Among the different systems currently adopted for the waste heat recovery, absorption plants are considered to be the most competitive because they ensure important savings in primary extracted from different thermal processes, they may not always posses the necessary temperature level for the industrial utilization. Under these conditions, conventional one stage the vapor absorption heat transformers (VAHT) cannot produce temperatures above a certain value. To obtain high heat delivery temperatures, Wilkinson proposed a two-stage VAHT.

The paper present another similar two-stage plant, which may be used to produce very high temperatures of heat, delivered by the absorber. A comparative study of different VAHT types shows that the proposed system ensures even better performance than the similar plant invented by Wilkinson.

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