THE CONCEPTION AND STUDY OF THE
PERFORMANCES OF A NEW TYPE OF LITHIUM BROMIDE-WATER ABSORPTION 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 possess 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.

REFERENCES