

LITHIUM BROMIDE - WATER ABSORPTION COOLING PLANTS WITH DOUBLE EFFECT

Sava PORNEALA, Emilia MURINEANU, Steluta DINU

"Dunarea de Jos" University of Galati

ABSTRACT

This paper present the methodology of thermal calculus and the performance of the double-effect water- lithium bromide refrigerating plant in comparison with the single-effect plani

REFERENCES

1. Gomed, K., Grossman, G., - Performance analysis of staged absorption heat pumps: Water- lithium bromide systems. ASHRAE Transactions 96(1), p. 1590-1598
2. Herold, K.E., Radermacher,R, Klein, S., - Absorption Chillers and heat Pumps -CRC Press, Boca Raton, New York, London, Tokyo, 1996.
3. Porneală S., - Installation frigorifique a absorption eau-bromure de lithium a deux boilleurs: Revue Generale du Froid, France, nr.6, 1985, p.383.
4. Porneală S., - Instalații frigorifice și transformatoare de căldură cu absorbție, Universitatea "Dunărea de Jos" din Galați, 1998.
5. Porneală S., - Conceiving and study of a new type of lithium bromide water absorption heat transformer (in romanian) Revista ECO-CLIMA. I- 2 /1998, iunie.
6. Porneală S., Porneală D., - A new Method and Formula for Analysis, Calculus and Optimization of Thermal and Refrigerating Plants: proceedings of the International Symposium on Ocean Technology and Energy in Imari '99, Saga University, Japan, Oct.29 '99, Nov.2,1999.
7. Porneală S., Neagu M., Porneală Cr., - The Ammonia Water Absorption Refrigerating Plant with Regenerative heat Exchange between Absorber and Evaporator, with Two refrigerated media: Analele Universității "Dunarea de Jos" din Galați, Fasc IV, Anul XV 2000, ISSN 1221-4558, p.5
8. Porneală S.gj Porneală Cr., - The Performance of the Ammonia Water Absorption Refrigerating Plant with Regenerative heat Exchanger: Analele Universității "Dunarea de Jos" din Galați, Fasc IV, Anul XVI 2000, ISSN 1221- 4558, p.33
9. Rogdakis, E.D., Antonopoulos, K.A.. - Performances of a low-temperature NH₃-H₂O absorption refrigeration system, Energy, vol.17, nr 5, p.477-484,1992.
10. Wilkinson, W., Hanna, W., - Process and System for boosting the Temperature of Sensible waste Source, Patent nr.4333515, USA, 1982.