



Fig. 13. The influences of the number of plates for 1pass-1 pass counter-flow heat exchanger LMTD

References:

- [1] A. Badea, H. Necula, M. Stan, L. Ionescu, P. Blaga., G.Darie, *Echipamente și instalații termice*, Editura Tehnică, București, 2003
- [2] J. A. W. Gut, J. M. Pinto, *Modeling of plate heat exchangers with generalized configurations*, International Journal of Heat and Mass Transfer, 2003, pp. 2571-2585.
- [3] Z. Zhang, Y. Zhong Li, *CFD simulation on inlet configuration of plate-fin heat exchangers*, Cryogenics 43 (2003) pp. 673–678, www.elsevier.com/locate/cryogenics.
- [4] L.Garba, S.Mehes, *Heat Capacity of Vertical Ground Heat Exchangers with Single U-Tube Installation in the Function of Time*, WSEAS Transactions on Heat and Mass Transfer, vol. 3, 2008, pp. 177-186
- [5] D.Cotoros, M.Baritz, L.Cristea, *Assessment of Heat Exchangers Based on the Efficiency Coefficient*, 6th IASME/WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT, Rhodes, Greece, August 20-22 2008, pp.318-321
- [6] R.K.Shah, S.G.Kandlikar, *The Influence of the Number of Thermal Plates on Plate Heat Exchanger Performance*, www.rit.edu
- [7] A.G.Kanaris, K.A.Mouza, S.P.Paras, *Designing Novel Compact Heat Exchangers for Improved Efficiency using a CFD Code*, 1st International Conference „From Scientific Computing to Computational Engineering”, Athens, Greece, 2004
- [8] R.Grigore, S.Popa, *Some Aspects about Numerical Simulation of Plate Heat Exchanger Using Finite Element Method*, 7th International Conference on Electromechanical and Power Systems SIELMEN 2009, Iași, Romania
- [9] R.Grigore, S.Popa, *Modeling a Counter-flow Plate Heat Exchanger*, 4TH International Conference on Energy and Environment, CIEM 2009,–București, Romania
- [10] *** COSMOS/Flow - Technical Reference
- [11] M.H.Saber, H.Mazaher Ashtiani, *Simulation and CFD Analysis of heat pipe exchanger using Fluent to increase of the thermal efficiency*, 5th IASME/WSEAS International Conference on Continuum Mechanics, University of Cambridge, UK,February 23-25, 2010, pp.184-189
- [12] F.D.Surianu, C.Barbulescu, *Complete Dynamic Behaviour Mathematical Modelling of Hydromechanical Equipment. Case Study: Hydro Power Plant Raul Mare – Retezat, Romania*, WSEAS Transactions on Power Systems, Issue 7, vol.3, 2008, pp. 517-526