



DAFTAR ACUAN

- [1] Pamitran Agus S., “Sejarah Refrigerasi Sebelum Abad ke-19”, Diakses Juni 2008.
<http://perpika.wordpress.com/2007/06/21/sejarah-refrigerasi-sebelum-abad-ke-19/>
- [2] Yuli Setyo Indartono, “Perkembangan Terkini Teknologi Refrigerasi”, Artikel Iptek-Bidang Energi dan Sumber Daya Alam, Diakses Juni 2008.
[http://www.beritaiptek.com/zberita-beritaiptek-2006-05-07-perkembangan-Terkini-Teknologi-Refrigerasi--\(1\).shtml](http://www.beritaiptek.com/zberita-beritaiptek-2006-05-07-perkembangan-Terkini-Teknologi-Refrigerasi--(1).shtml)
- [3] Budilaksono, Dawuh, “Pengujian Alat Pendingin Sistim Adsorpsi Berdasarkan Variasi Tekanan Maksimum Desorpsi Untuk Pengembangan Menggunakan *Solar Collector*”, Skripsi Fakultas Teknik Universitas Indonesia, 2007.
- [4] Wikipedia Indonesia, ”Adsorpsi”, Diakses Juni 2008.
<http://id.wikipedia.org/wiki/Adsorpsi>

- [5] <http://joejaworski.files.wordpress.com/2008/05/activatedcarbon1.jpg>
- [6] L.W. Wang, J.Y. Wu, R.Z. Wang *, Y.X. Xu, S.G. Wang, X.R. Li, "Study of the performance of activated carbon–methanol adsorption systems concerning heat and mass transfer", *Applied Thermal Engineering* 23 (2003) 1605–1617, 2003. Hal. 1605.
- [7] Suryawan, Bambang, "Karakteristik Zeolit Indonesia Sebagai Adsorben Uap Air", Disertasi Fakultas Teknik Univesritas Indonesia, 2004.
- [8] N.S Pamungkas, "Proses Perbaikan Sistem Pendingin Dengan Sistem Adsorpsi Menggunakan Karbon Aktif dan Metanol Sebagai Refrigeran", Skripsi Fakultas Teknik Universitas Indonesia, 2007.
- [9] <http://www.tirupatisilicagel.com/full-images/672209.jpg>
- [10] http://www.brookwater.co.uk/shop/images/Activated_Carbon.jpg
- [11] <http://www.atlpac.com/admin/images/upfile/20071211213153.jpg>
- [12] Chemviron Carbon: Industrial Gas Processing with Activated carbon, Gas Processing with Activated Carbon, Diakses Juni 2008.
<http://www.chemvironcarbon.com/en/applications/process/gas-processing>
- [13] Nasruddin, "*Dynamic Modeling and Simulation of a Two-Bed Silicagel-Water Adsorption Chiller.*" Disertation, Rwth Aachen, 2005, hal. 3-12
- [14] Michel Ponsw. "*Principle of Adsorption Cycle for Refrigerator or Heat Pump,* Diakses Juni 2008.
<http://www.limsi.fr/Individu/mpons/pricyc.htm>

- [15] Budiyo, “Analisa Pembuatan Sistem Pendingin Dengan Sistem Adsorpsi Untuk Kapal Nelayan Menggunakan Karbon Aktif”, Skripsi Fakultas Teknik Universitas Indonesia, 2006/2007.
- [16] Cengel, Yunus A., Michael A. Boles, “Thermodynamics an Engineering Approach Fourth Edition International Edition”, McGraw-Hill, 2002.
- [17] Whitman William C., William M. Johnson, John A. Tomczyk, *Refrigeration and Air Conditioning Technology*, Delmar Thomson LearningTM, (New York, 2000)
- [18] D.C. Wang *, J.Y. Wu, “*Influence of intermittent heat source on adsorption ice maker using waste heat*”, *Energy Conversion and Management* 46 (2005) 985–998, 2004. Hal 995.
- [19] L.W. Wang, J.Y. Wu, R.Z. Wang *, Y.X. Xu, S.G. Wang, X.R. Li, “Study of the performance of activated carbon–methanol adsorption systems concerning heat and mass transfer”, *Applied Thermal Engineering* 23 (2003) 1605–1617, 2003. Hal. 1614.
- [20] L.W. Wang, J.Y. Wu, R.Z. Wang *, Y.X. Xu, S.G. Wang, X.R. Li, “Study of the performance of activated carbon–methanol adsorption systems concerning heat and mass transfer”, *Applied Thermal Engineering* 23 (2003) 1605–1617, 2003. Hal. 1607.
- [21] L.W. Wang, R.Z. Wang*, J.Y. Wu, Y.X. Xu, S.G. Wang, ”*Design, simulation and performance of a waste heat driven adsorption ice maker for fishing boat*”, *Energy* 31 (2006) 244–259, Hal. 247.

- [22] D.C. Wang *, J.Y. Wu, “*Influence of intermittent heat source on adsorption ice maker using waste heat*”, Energy Conversion and Management 46 (2005) 985–998, 2004. Hal 991.



LAMPIRAN 1

PROPERTY OF METHANOL

1. Molar mass = 32,042 Kg/Kmol
2. Triple point temperature = -97,54 °C
3. Normal boiling point = 64,482 °C
4. Critical Point
 - T = 239,45 °C
 - P = 8,1035 MPa
5. Density = 275,56 Kg/m³
6. Range of applicability
 - T_{min} = -97,54 °C
 - T_{mak} = 346,85 °C
 - P_{mak} = 800 MPa
 - P_{min} = 1139,7 Kg/m³