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Judul Jurnal Ilmiah (Artikel)	:	Unsteady exergy analysis for a recycle and recovery machine Analyse de l'exergie instable pour une machine de recyclage et de récupération		
Jumlah Penulis	:	4		
Status Pengusul	:	penulis ke-1		
Identitas Jurnal Ilmiah	:	a. Nama Jurnal	:	International Journal of Refrigeration
		b. Nomor ISSN	:	0140-7007
		c. Vol, No., Bln Thn	:	87, March 2018
		d. Penerbit	:	Elsevier
		e. DOI artikel (jika ada)	:	https://doi.org/10.1016/j.ijrefrig.2017.10.002
		f. Alamat web jurnal	:	https://www.sciencedirect.com/science/article/pii/S0140700717303833
		Alamat Artikel	:	https://eprints2.undip.ac.id/1511/1/Unsteady%20exergy%20analysis%20for%20a%20recycle%20and%20recovery%20machine.pdf
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Nilai Pengusul = 60% x 35 = 21				

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Artikel ini terdiri dari: Title, Abstract, Introduction, System Description, Model Mathematics, Results and Discussion, Conclusion, Abbreviation, Acknowledgment, References dan ditulis sesuai dengan Guide for Author. Substansi artikel sesuai dengan bidang ilmu (Teknik Mesin) terutama system refigerasi.

2. Ruang lingkup dan kedalaman pembahasan:

Artikel ini berisi tentang analisa Exergi tidak tunak mesin 2R. Novelity pada artikel ini adalah menganalisa exergy untuk proses tidak tunak. Secara umum mempunyai kontribusi untuk perkembangan ilmu termodinamika dan refrigerasi.Beberapa hasil dan perlakuan memberikan hasil yang cukup signifikan terutama pada Grafik 4, 6 dan 7. Kedalaman metode yang dilakukan juga cukup detail terutama model matematika yang digunakan. Namun demikian, pembahasan yang dilakukan tidak komprehensif, tidak satupun referensi yang digunakan dicitasi.

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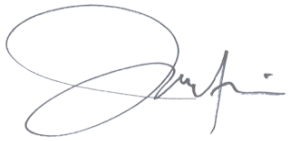

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Bidang Ilmu : Teknik Kimia

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		Alamat Artikel	:	https://eprints2.undip.ac.id/1511/1/Unsteady%20exergy%20analysis%20for%20a%20recycle%20and%20recovery%20machine.pdf
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International Journal of Refrigeration
Volume 87, March 2018, Pages 1-9

Unsteady exergy analysis for a recycle and recovery machine (Review)

[Analyse de l'exergie instable pour une machine de recyclage et de récupération]

Fajar TK, B., Panca N, D., Wicaksono, G.

Department of Mechanical Engineering, Diponegoro University, Prof.Sudharto, SH. Street, Tembalang-Semarang, 50275, Indonesia

Abstract

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Machine 2R is necessary in order to avoid the release of refrigerant during the repair of an air conditioning machine. The main goals of this paper are to determine the rate of exergy transfer, the rate of exergy destruction and the rate of exergy change in the compressor, condenser, oil separator and 2R machine. This study also determines the performance of the 2R machine. Pressure, temperature and mass of the refrigerant were measured every 0.5 minutes for 10 minutes. In conclusion, the results of this analysis show that the rate of destruction exergy in the compressor is 59.98%, and 25.37% in the condenser. The value of the Residual Trapped Refrigerant (RTR) of recycling and recovery machine meets the AHRI standard, that is, 34 grams, and the value of the Refrigerant Loss (RL) complies with the AHRI standard, which is 10 grams, while its performance is 91.2%. © 2017 Elsevier Ltd and IIR

SciVal Topic Prominence

Topic: Refrigerants | Refrigeration | Discharge temperature

Prominence percentile: 97.646

Author keywords

Energy | Entropy | Exergy | Exergy destruction | Refrigeration

Indexed keywords

Engineering controlled terms: Air conditioning | Entropy | Recycling | Refrigerants | Refrigeration

Engineering uncontrolled terms: 10 minutes | Energy | Exergy Analysis | Exergy change | Exergy destructions | Exergy transfer | Oil separators

Engineering main heading: Exergy

Funding details

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International Journal of Refrigeration
Volume 87, March 2018, Pages 10-25

Assessment of vapor–liquid equilibrium models for ionic liquid based working pairs in absorption cycles

Évaluation de modèles d'équilibre liquide-vapeur pour les paires fonctionnant avec du liquide ionique dans les cycles à absorption

Meng Wang, Tim M. Becker, Carlos A. Infante Ferreira

Process and Energy Department, Delft University of Technology, Leeghwaterstraat 39, 2628 CB Delft, The Netherlands

Received 26 April 2017, Revised 23 August 2017, Accepted 25 September 2017, Available online 14 October 2017.

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Highlights

- RK-EOS is recommended in correlating VLE data and in estimating mixing enthalpies in absorption cycles.
- The mixing of liquid NH_3 with IL is less exothermic than that of H_2O with IL.
- The total enthalpy of the studied NH_3/IL solution is less sensitive to VLE models than that of the studied H_2O/IL solution.
- A lower estimation of the mixing enthalpy leads to an overestimated cycle *COP*.

Abstract

This paper assesses the performance of vapor–liquid equilibrium (VLE) models in ionic liquid based absorption cycles with natural refrigerants. Frequently used equation-of-state (EOS) based models, activity

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International Journal of Refrigeration
Volume 87, March 2018, Pages 26-38

Algorithms for the calculation of psychrometric properties from multi-fluid Helmholtz-energy-explicit models

Algorithmes pour le calcul des propriétés psychrométriques à partir de modèles multi-fluides explicites, basés sur l'énergie de Helmholtz ☆

Ian H. Bell, Eric W. Lemmon, Allan H. Harvey

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Received 9 August 2017, Revised 14 September 2017, Accepted 2 October 2017, Available online 18 October 2017.

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Highlights

- Algorithms presented for calculations of psychrometric properties of multi-fluid mixture models.
- Model formulation allows for varied composition of the dry air.
- Comprehensive description of the required numerical techniques provided.
- C++ implementation of the algorithms in supplemental material.

Abstract

Psychrometric properties of humid air are widely used in the analysis and modeling of thermal systems. In this work, we present a method for obtaining these properties from the multi-fluid mixture formulation of the GERG mixture model. This mixture model was originally developed to model the thermodynamics of

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