

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Energy Consumption Comparison of Split Air Conditioner Using R-22 And R-290 Refrigerant
 Jumlah Penulis : 3 orang (**Windarta J**, Nugroho Agung, Wicaksono Arie)
 Status Pengusul : penulis ke-1
 Identitas Jurnal Ilmiah : a. Nama Jurnal : International Journal of Innovative Research in Advanced Engineering (IJIRAE)
 b. Nomor ISSN : 2456-043X
 c. Vol, No., Bln Thn : Vol. 4 No 3 (2018)
 d. Penerbit : Innovative Library
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 f. Alamat web jurnal : <https://www.ijesar.in/index.php/ijesar/article/view/123>
 Alamat Artikel : <https://www.ijesar.in/index.php/ijesar/article/view/123/120>
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Total = (100%)	14	15,0	14,5
Nilai Pengusul = (60% x 14,5) = 8,7			

Semarang,

Reviewer 2



Mochammad Facta, S.T., M.T., Ph.D.
 NIP. 197106161999031003
 Unit : Teknik Elektro FT UNDIP

Reviewer 1



Dr. Wahyudi, ST, MT
 NIP. 196906121994031001
 Unit : Teknik Elektro FT UNDIP

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Total = (100%)	20,00			14
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4. Kelengkapan unsur dan kualitas terbitan:

Kualitas terbitan baik, terbitan jurnal, editor.

Semarang,
Reviewer 1



Dr. Wahyudi, ST, MT
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6,00			4,5
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00			5,5
Total = (100%)	20,00			15,0
Nilai Pengusul = (60% x 15,0) = 9,3				

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1. Kesesuaian dan kelengkapan unsur isi jurnal:

Kelengkapan dan kesesuaian unsur sudah lengkap sesuai template yang ada di International Journal of Innovative Research in Advanced Engineering (IJIRAE), yaitu terdiri dari judul, abstrak, pendahuluan, metode, pembahasan, kesimpulan, dan referensi. Artikel telah sesuai bidang ilmu pengusul/anggota penulis.

2. Ruang lingkup dan kedalaman pembahasan:

Isi artikel ini berkaitan dengan perbandingan konsumsi energi AC split menggunakan refrigerant R-22 dan R-290. Metode dan Langkah yang dilakukan cukup jelas. Data-data yang ditampilkan cukup banyak, jelas dan detail yang dilengkapi dengan tabel dan gambar guna memperjelas pembahasan.

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Semarang,
Reviewer 2



Mochammad Facta, S.T., M.T., Ph.D.
NIP. 197106161999031003
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Ján Mandelík

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Energy Consumption Comparison of Split Air Conditioner Using R-22 AND R-290 Refrigerant

Jaka Windarta

Lecturer of Master Program of Energy-School of Postgraduate Studies Diponegoro University

Agung Nugroho

Lecturer electrical engineering faculty of Diponegoro University

Arie Wicaksono

Student of Master Program of Energy-School of Postgraduate Studies Diponegoro University

Abstract

Growth of Indonesian Industrial sector in 2018 as much as 5.3 % will trigger an increase in refrigeration needs. In terms of regulation of refrigerant with *Chlorofluorocarbon* base (CFC) phase out is targeted in 1995 for developed countries and 2015 for developing countries. *Hydro Fluorocarbon*-based refrigerant (HCF) phase out is targeted in 2020 for developed countries and 2030 for developing countries, so it important to find refrigerant that is environmentally friendly as well as energy efficient. Based on the problem as an alternative refrigerant that is environmentally friendly, currently available technology based hydrocarbon refrigerant (propane) R-290 is considered environmentally friendly. From the conversion process from R-22 to R-290 Air conditioning various capacities 1 PK ($\pm 9,000$ BTU / h), 1.5 PK ($\pm 12,000$ BTU / h), 2 PK ($\pm 18,000$ BTU / h); 3PK ($\pm 24,000$ BTU / h) in PT.Phaphros. Tbk at comfortable working conditions, obtained energy savings of 10765, 44KWh / year. Refrigerant R290 is flammable special handling is required especially in terms of safety and spare part compatibility when converting.

Keywords: *Hydrocarbon Refrigerant, Energy Efficiency, R290*

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Fall of passengers on the bus due to its intensive braking

Ján Mandelík

Department of Transport Safety, the University of Security Management in Kosice, Kosice, [Slovak Republic](#)

Abstract

The article deals with the injuries of the passengers A, B and C on a bus, which were caused due to the bus braking intensively. A procedure of a technical expert using the PC Crash simulation program and the FORTIS forensic system is demonstrated. The stated cases, passenger falls, are one of the most challenging tasks for a technical expert and a description of how to proceed with an expertise can be considered a benefit. The calculation results and the method of parametrization and injury localization via the FORTIS system are presented in the article, too. Moreover, there are results of the examination and their substantiation.

Key word: Bus, passengers, injuries, Fortis system, accident, analysis

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An Overview of Novel Techniques employed in Mouth Dissolving Drug Delivery System

Dr. Manish Kumar Gupta

Professor and Principal, Jaipur College of Pharmacy, Jaipur, Rajasthan, [India](#)

Dr. Rakesh Gupta

Professor and Principal, LBS College of Pharmacy, Jaipur, Rajasthan, India

Dr. Alok Khunteta

Associate Professor, LBS College of Pharmacy, Jaipur, Rajasthan, India

Mr. Surendra Kumar Swarnkar

Assistant Professor, LBS College of Pharmacy, Jaipur, Rajasthan, India

Abstract

Mouth-dissolving drug delivery systems can be manufactured by a variety of technologies, including direct compression, wet granulation, freeze drying, spray drying, vacuum drying and use of superdisintegrants. Fast Dissolving drug delivery system (FDDS) that includes Mouth Dissolving tablets (MDTs) and Mouth Dissolving films (MDFs). FDDS have been defined as “A solid dosage form containing medicinal substances which disintegrates rapidly, usually within a matter of seconds, when placed upon the tongue”. United States Food and Drug Administration further defines FDDS as solid oral preparations that disintegrate rapidly in the oral cavity, with an in-vitro disintegration time of approximately thirty seconds or less. Initially the FDDS were introduced as MDTs in 1970’s as an alternative to the conventional tablet and capsule which require swallowing of the dosage form and latter on MDFs was introduced in 2001. They undergo disintegration or dissolution in the saliva generally within few seconds to a minute releasing the drug and inactive ingredients into the oral cavity. The major amount of the drug will eventually be swallowed with the saliva and transported along the GIT where the drug is subsequently absorbed. This review article was emphasized on the various novel techniques applied to develop a FDDDS and their applications in the field of pharmacy.

KEYWORDS: Quick dissolving dosage forms; slow dissolving DDS; non dissolving DDs, Novel technology of FDDDs.