

# Accepted Manuscript

Analysis of airflow and heat transfer inside fruit packed refrigerated shipping container: Part II – Evaluation of apple packaging design and vertical flow resistance



Samuel Getahun, Alemayehu Ambaw, Mulugeta Delele, Chris J. Meyer, Umezuruike Linus Opara

PII: S0260-8774(17)30050-X  
DOI: 10.1016/j.jfoodeng.2017.02.011  
Reference: JFOE 8785  
To appear in: *Journal of Food Engineering*  
Received Date: 21 September 2016  
Revised Date: 04 February 2017  
Accepted Date: 11 February 2017

Please cite this article as: Samuel Getahun, Alemayehu Ambaw, Mulugeta Delele, Chris J. Meyer, Umezuruike Linus Opara, Analysis of airflow and heat transfer inside fruit packed refrigerated shipping container: Part II – Evaluation of apple packaging design and vertical flow resistance, *Journal of Food Engineering* (2017), doi: 10.1016/j.jfoodeng.2017.02.011

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- Wind tunnel tests were conducted to characterize pallet airflow resistance.
- Cooling rate and uniformity were clearly dependent on packaging design.
- Vertical airflow was critical for fruit cooling in a reefer.
- Improved cooling performance was obtained with increased bottom vent-holes.

Download English Version:

<https://daneshyari.com/en/article/4909102>

Download Persian Version:

<https://daneshyari.com/article/4909102>

[Daneshyari.com](https://daneshyari.com)