



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2015_BJAST_16778
Title of the Manuscript:	Simulation and Comparison of the performance of refrigerant fluids in single stage vapor compression refrigeration system
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	1. The topic of this paper is relevant to the journal's readers, the contribution is unclear and results are not significant enough for publication. Moreover, the aim and methodology of this study are similarly with the other paper, thus this paper should be significantly improve. 2. Figures 1 and 2 should be redraw, which Q_e, W_c and T_e should not be overlay elements and P-h line. 3. Line 83, with a super heating degree, but in Figure 2 is saturated vapour. 4. Line 88, as sub-cooled liquid, but in Figure 2 is saturated liquid. 5. Lines 120-143, t is abbreviation of temperature, but in lines 148-155 use T for temperature. 6. Figure 3, Cop should be correct to COP. 7. Figure 5, what are COP of ammonia at 55-60 °C. 8. Figure 6 is not mentioned. 9. Figures 6-7, refrigerating effect of ammonia does not shown. 10. What are initial conditions for simulation such as V, H, Hr, Ta and Tr in eq. 8.	The COP of ammonia at 55-60 °C was not shown in Figure 5 because these temperature values are out of range for ammonia performance. The performance evaluation simulation results for ammonia in terms of refrigerating effect though not shown in Figure 6 and 7 is on a high side compared to the other refrigerants considered in this study.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		