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Template for 15th IIR Gustav Lorentzen conference

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ABSTRACT

As a first step, the authors are invited to carefully read the guidelines which are provided in addition to this document in a separate file. The guidelines are meant to give instructions to the authors about the requested format for your full paper. All authors MUST use and comply with the conference paper template and apply the mentioned styles. The abstract should be no longer than 150 words. The entire manuscript (i.e. including abstract, text, figures, and tables, excluding references) must contain a maximum number of 5000 words for conference papers and a maximum number of 7000 words for a keynote paper. It should clearly state the objective of the work, give a concise and factual description of the contents, and present the important conclusions. Abstracts can be submitted in English or the local language. If an abstract is submitted in the local language, an English translation MUST also be provided. 5 to 6 keywords should be provided from the keyword list if provided by the organisers otherwise do list of own 5-6 keywords.

Keywords: Refrigeration, Carbon Dioxide, Compressors, COP, Evaporators, Energy Efficiency.

1. INTRODUCTION

The introduction should give a statement of the problem and a clear outline of the paper. As the number of words for the full paper is limited to 5000 for a conference paper, we recommend that both abstract and introduction do not exceed one page. This document is formatted using pre-defined styles that all authors should apply to the final version of their submitted article. We highly encourage authors to do follow the instructions given in the authors guidelines to ensure the conformity of the papers throughout the conference proceedings. The paper should be written in good English. It is possible to use either British or American English. The authors are requested to carefully check both grammatical and spelling errors before submitting their conference papers. The authors are also authorised to submit their papers in local language, in this case an English translation of the paper MUST also be submitted.

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Titles of all main sections should be 12-points, centred, and in boldface capital letters. A blank space 18-points (not a blank line) should be placed above the titles. A blank space 6-points (not a blank line) should be placed below the titles. Keep your text and graphic files separate until after the text has been formatted and styled. Do not use hard tabs, and limit use of hard returns to only one return at the end of a paragraph. Do not add any kind of pagination anywhere in the paper. Do not number text headings – the template will do that for you. The main body of the paper will consist of one or more main sections describing experimental designs, test procedures, theoretical consideration, and results. Sections with appropriate subtitles should describe the test equipment, measurements, observations, and mathematics needed to perform the experiments. Case histories, systems descriptions or applications should contain original aspects, out-of-standard performance or noteworthy details that should be clearly identified and described. Discussion of the results, qualifications, limits to the accuracy of tests, and calculations should also be included in this part.

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The text area is to be 17.0 cm wide by 25.2 cm high. Table 1 presents the margin settings for A4 size paper (21 x 29,7 cm). It is important to adhere to these margins to ensure that your manuscript prints properly on the paper format from the Conference Proceedings.

Table 1. Page margins for manuscripts submitted to the Nth IIR Conference

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Each table should be numbered (Table 1, Table 2, etc.), with the caption being placed above the table. Each figure should be numbered (Figure 1, Figure 2, etc.), with the caption being placed below the figure. Conference papers should contain a maximum total number of 15 for figures and tables. Figure a1, a2 and a3, count as 3 figures and not only 1. In the text, figures and tables should be referred to as follows: “Figure 1 shows the relationship …” or “the measured values are given in Table 1.” Figures and tables should be inserted into the text as soon as they are first referenced (as illustrated by Table 1). Images and graphs used should be of high quality (minimum 300 ppi), and not blurry or pixelated. Please do not hesitate to reproduce graphs directly in the paper. If not your own work, permission should be obtained for use of copyrighted material from other sources (including those from Internet). Fonts used in figures should be large enough to be legible.

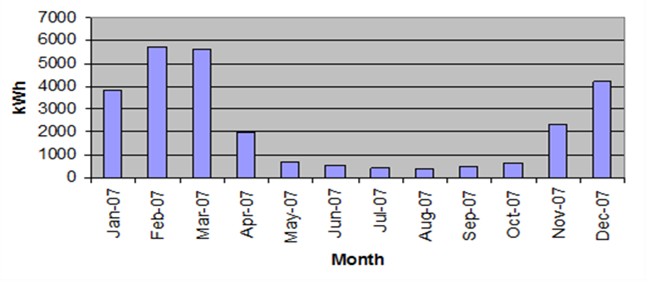


Figure 1: Monthly electricity consumption

A picture containing text, black

Description automatically generated

Figure 2: James Harrison's ice making machine (© iifiir.org/en/iir-presentation)

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Use the “Equation Editor” whenever possible. Equations should be centred, with the equation number flush with the right margin. If you are using the “IIR equation” style, this is accomplished by inserting tab characters before the equation number. Equations should be cited in the text with its number, for example, “…as shown in Eq. (1)”. Equations should be separated from the text above and below by a blank space, already predefined in the style.

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 Eq. (1)

where p is pressure in kPa, T is temperature in K, V is molar volume in m3.mol–1, and R is the gas constant. If few equations are used, the definition of symbols follows each equation. Otherwise, the manuscript shall include a Nomenclature where all symbols and abbreviations are explained. Use the international system of units (SI). Avoid use of the solidus (/) but present quantities in the denominator always with negative exponents. The units used should be given, if appropriate. For the Nomenclature section only, a two-column format may be used, if desired, to save space.

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1. CONCLUSIONS

The Conclusions section should include the major conclusions of the work and summarize the significance of the paper as clearly and concisely as possible. Further works can be also stated in the conclusions.

ACKNOWLEDGEMENTS

A short section may acknowledge special assistance, such as financial aid, help of guiding technical committees, individuals, or other groups.

NOMENCLATURE

|  |  |  |  |
| --- | --- | --- | --- |
| *p* | pressure (kPa) | *R* | molar gas constant (8.314472 J×mol–1×K–1) |
| *T* | temperature (K) | *V* | molar volume (m3×mol-1) |

REFERENCES

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Book: Name(s) of the author(s), first name initial(s)., year of publication. Title of the book. Name of publisher, place of publication, number of pages. Establishments can be considered authors when they assume main responsibility for the text and their publications reflect their collective reflections or activities.

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Duminil, M., 1995. Principes de la production du froid. In: Côme, D., Ulrich, R., La chaîne du froid – Le froid au service de l'homme, Hermann, Paris, 33-144.

Herbe, L., Lundqvist, P., 1997. CFC and HCFC refrigerants retrofits. Int. J. Refrigeration 20(1), 49-54.

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