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Executive Summary
In 2015, the REHVA European HVAC Journal was published bimonthly. The journal is printed and distributed by Turkey by Teknik Sektor Yayincilik.

In 2014, the production costs were higher than last year because of the increase in the number of subscribers and the increase in the shipping cost, and by far higher than income from advertisements. In 2015, to maintain the quality of the technical content of the REHVA European HVAC Journal, REHVA reviewed its income structure and has decided to charge for a subscription to the REHVA journal. This allowed us to keep original format. Furthermore, in 2015, the REHVA Journal issues were available in a restricted section of the REHVA website which incurred development costs.

The current subscribers were offered two options:

- Continue to receive the paper copy for the cost of 60€ per year for REHVA Members or 70€ per year for others and read the eJournal online in the restricted area.
- Read the eJournal online in the restricted area for 30 € for REHVA Members or 40€ per year for others
- The REHVA Member Associations and the Supporters continued to receive free copies of the REHVA Journal.

Chapter 1 - Editorial Analysis

Editorial Board - 2015
Francis Allard, France
Ahmet Arisoy, Turkey
Jan Aufderheijde, Netherlands
Marianna Brodatch, Russia
Vincenc Butala, Slovenia
Francesca Romana d’Ambrosio, Italy
Ioan Silviu Dobosi, Romania
Egils Dzelzitis, Latvia
Andy Ford, UK
Signhild Gehlin, Sweden
Karel Kabele, Czech Republic
Jarek Kurnitski, Estonia
Zoltan Magyar, Hungary
Eduardo Maldonado, Portugal
Livio Mazzarella, Italy
Renato Merati, Italy
Birgit Müller, Germany
Natasa Nord, Norway
Bjarne W. Olesen, Denmark
Branimir Pavkovic, Croatia

Dusan Petras, Slovakia
Olli Seppänen, Finland
José Tarodo, Spain
Branislav Todorovic, Serbia
Malja Virta, Finland
Peter Wouters, Belgium

REHVA Journal Staff - 2015
Jaap Hogeling (since October 2014)
Editor-in-Chief

Stefano Corgnati
Associate Editor

Cynthia Despradel
Editorial Assistant

Jarkko Narvanne
Graphical Designer

The Working rules of the editorial board of REHVA journal is outlined in Appendix 1.
SUBMISSIONS

Manuscript submission
Authors can contact the editor-in-chief for queries throughout the manuscript submission and the publishing and production editor throughout production processes. The intention is to ensure the effectiveness, efficiency and simplicity of the publishing process. General information for authors is available online at REHVA website: www.rehva.eu.

Instructions to authors of REHVA journal
We are dedicated to facilitating and improving communication and providing the more possible guidelines to our authors. Publishing articles should be a trouble-free and rewarding experience for authors and we value their comments and feedback. The instructions to authors are in the Appendix 2. This information is also available online on www.rehva.eu.

Statistics of the journal
Number of articles per issue and supporters contribution

Geographical distribution of journal material
The articles were submitted from 19 member countries.

Geographical distribution of submission by country of the first author

<table>
<thead>
<tr>
<th>Country</th>
<th>Nbr of articles</th>
<th>Country</th>
<th>Nbr of articles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>7</td>
<td>Norway</td>
<td>2</td>
</tr>
<tr>
<td>Cyprus</td>
<td>1</td>
<td>Portugal</td>
<td>1</td>
</tr>
<tr>
<td>Denmark</td>
<td>6</td>
<td>Spain</td>
<td>3</td>
</tr>
<tr>
<td>Estonia</td>
<td>2</td>
<td>Slovakia</td>
<td>1</td>
</tr>
<tr>
<td>Finland</td>
<td>2</td>
<td>Sweden</td>
<td>1</td>
</tr>
<tr>
<td>France</td>
<td>19</td>
<td>Switzerland</td>
<td>3</td>
</tr>
<tr>
<td>Germany</td>
<td>6</td>
<td>The Netherlands</td>
<td>10</td>
</tr>
<tr>
<td>Italy</td>
<td>6</td>
<td>Turkey</td>
<td>1</td>
</tr>
<tr>
<td>Latvia</td>
<td>2</td>
<td>United Kingdom</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>United States</td>
<td>1</td>
</tr>
</tbody>
</table>
Chapter 2 - Publishing, Promotion, Website, Advertisements, Distribution

PUBLISHING

Publishing Figures
Six issues were published and one special issue for ACREX 2015. The target number of pages was 80 + 4 pages per issue. The special edition had 72 + 4 pages. There is a limit in the number of pages because of the mailing costs. The mailing costs increased when the weight of the Journal was more than 250g. Due to this page limitation, the Journal cannot publish all submitted material in paper version. On the REHVA Journal website, we have started to publish long articles and exclusive articles.

Publishing information of the REHVA Journal in 2015

<table>
<thead>
<tr>
<th>Issue</th>
<th>Theme</th>
<th>Number of printed copies</th>
<th>Events where the Journal was distributed</th>
<th>Pages published</th>
</tr>
</thead>
</table>
| Issue 1/January | FOCUS IN EPB STANDARDS                                                   | 600                      | ASHRAE Winter Meeting and AHR Expo  
Chicago, Illinois, USA  
January 26-28  
WSED  
Wels, Austria  
February 26 – February 28                          | 68                           |
| Issue 2/March   | TOWARD NEARLY ZERO ENERGY BUILDINGS/ EUROPEAN CERTIFICATION          | 1600                     | ACREX  
Bangalore, India  
February 26 – February 28                          | 80                           |
| Special issue ACREX exhibition | EUROPEAN CERTIFICATION of HVAC PRODUCTS/ EU STANDARDS ON ENERGY PERFORMANCE OF BUILDINGS ASSESSMENT | 5000                     | ISH Frankfurt  
Frankfurt, Germany  
March 10 – March 14                      | 72                           |
| Issue 3/May       | HEATING AND COOLING IN THE EUROPEAN ENERGY TRANSITION               | 600                      | REHVA Annual Meeting  
Riga, Latvia  
May 6 – 7  
Healthy Building 2015 Europe  
Eindhoven, The Netherlands  
May 18 – 20                      | 84                           |
PROMOTION

Promotional Activities and Marketing Strategies
In 2015, the REHVA Journal was distributed at several fairs and conferences to promote REHVA and European HVAC technology. The events were selected by the potential visibility and importance of participants. The Journal has been an important asset to attract exhibitions to cooperate with REHVA. Successful events have been in 2015: ACREX in Bangalore, India and ISH in Frankfurt, Germany. Revenues from these events to REHVA have been substantial. We thank the advertisers and the organisers.

<table>
<thead>
<tr>
<th>Fairs or conferences where the Journal was distributed in 2015</th>
<th>Quantities</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASHRAE Winter Meeting, Chicago, USA</td>
<td>100</td>
</tr>
<tr>
<td>ACREX 2015, Bangalore, India</td>
<td>5000</td>
</tr>
<tr>
<td>ISH, Frankfurt, Germany</td>
<td>1000</td>
</tr>
<tr>
<td>REHVA Annual Meeting, Riga, Latvia</td>
<td>200</td>
</tr>
<tr>
<td>Climamed 2015</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6300</strong></td>
</tr>
</tbody>
</table>

Media kit
The 2015 media kit included a description of the REHVA Journal, the publishing plan and advertisements rates. It was sent to all REHVA Supporters and to several potential advertisers. It is available online in the REHVA Journal section of the REHVA website.

Cooperation with other HVAC associations
REHVA's mission is to develop and disseminate economical, energy efficient and healthy technology for mechanical services of building; to serve its members and the field of building engineering. In its activities relating to the dissemination of HVAC technology, REHVA
closely cooperates with other organisations that have a particular expertise in HVAC. This year, two issues were created in joint cooperation. The March issue and the special issue distributed at ACREX 2015 were produced with the active participation of Eurovent Certita Certification.

Cooperation with Members Associations
Cooperation with Member Associations is highly valuable. In order to reach as many professional as possible, their support in regional exhibitions and conferences is significant. Several REHVA Journal articles and interviews were published in Member Association Journals. Twenty national journals are displayed in the library of REHVA.

REHVA Journal website
Restricted area
The REHVA Journal section was during 2015 included in the restricted area of the REHVA. The REHVA Journal has its own section on the REHVA website. Each issue of the REHVA Journal is available in a PDF version. Each article is available and downloadable in PDF and HTML format. The REHVA articles are now easier to find with a search engine. Jarkko Narvanne, the Graphical Designer, provides the HTML and PDF versions. REHVA office uploads the content of each issue on the REHVA website and sends at the same time a message to the authors and key persons when it is ready. Due to limited number of pages in each issue, REHVA Journal started in 2012 the publication of long articles at REHVA Journal website. Some articles published in the REHVA Journal have a longer electronic-version available online.

Public website
In 2015, abstracts of each article were made available to read online.

ADVERTISEMENTS
Advertisements
A major income for REHVA is the advertisements in the REHVA Journal. The editorial team has compared the prices with other HVAC journals and draws the conclusion that our price level is correct. The number of paid advertisements was 57 in 2015.

Promotions for the advertisers
In order to attract advertisers, integrated marketing opportunities ("package deals") have been defined. REHVA negotiated promotional collaborations with organisers of special events and exhibitions. In 2015, REHVA had concluded for the REHVA Journal special contracts with ACREX, ISH and Aqua-Therm Russia.

<table>
<thead>
<tr>
<th>REHVA Journal</th>
<th>Number of advertisements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue 1</td>
<td>8</td>
</tr>
<tr>
<td>Issue 2</td>
<td>8</td>
</tr>
<tr>
<td>ACREX</td>
<td>5</td>
</tr>
<tr>
<td>Issue 3</td>
<td>6</td>
</tr>
<tr>
<td>Issue 4</td>
<td>7</td>
</tr>
<tr>
<td>Issue 5</td>
<td>11</td>
</tr>
<tr>
<td>Issue 6</td>
<td>12</td>
</tr>
</tbody>
</table>
**Special Discounts**

**Supporters' Discount**
- 6 issues agreement with a 40% discount
- 3 issues agreement with a 30% discount
- 1 issue agreement with a 20% discount

**Special collaborations' Discount**
- 1 issue agreement with a 20% discount

**For all advertisers**
- 6 issues agreement with a 25% discount
- 3 issues agreement with a 15% discount

**DISTRIBUTION**
In accordance with the contract, Teknik Sektor Yayincilik is responsible for the delivery of the Journal to all the subscribers. Member Associations and REHVA supporters receive two copies of each issue. The mailing list is updated for each issue by the REHVA office. Most of the journals are mailed to Europe but mailings cover many other countries, totally 71 countries from all continents.
Chapter 3 – REHVA Journal revenues

The REHVA Journal was in 2015 a source of income to REHVA. The annual balance is showing a positive result of € 32,233.00. This result is due to the limited number of printed copies. In view of the results, the REHVA Board of directors has decided to change his position for the distribution of the REHVA Journal. All the REHVA Journal articles will be available online in the public section of the journal as of January 2016. REHVA has decided to promote actively this new change to all our members, supporters and contacts.

| Expenditures and Revenues of the REHVA Journal in 2015 |
|-----------------------------------------------|----------------|
|                                               | total          |
| Advertisement                                 | € 90,603.00    |
| Production cost                               | € 58,370.00    |
| Difference                                    | € 32,233.00    |
Appendix 1

Working rules of the editorial board of
The REHVA European HVAC Journal

REHVA Journal is an official journal of REHVA. The journal will not compete with the national journals. The number of normal issues per year is six. The number of pages per issue is minimum 68. The journal may produce special issues for specific occasions and purposes.

The REHVA European HVAC Journal is the only Pan-European journal on Heating, Ventilation and Air Conditioning technology. The Journal provides readers with technical articles and case studies written by top European experts. Major topics are energy efficiency of building systems and buildings, healthy and productive indoor environment, sustainable development, renewable energy sources, and ICT in building systems.

The content of REHVA Journal is a mixture of technical articles (practical applications of latest research), case studies providing the best practice in HVAC, and latest technology from the industry. It also announces major HVAC events and publications available. A number of pages are for information on REHVA.

The target group of the journal is the decision makers in the HVAC business like designers, building owners, facility managers, trade associations, municipalities, governmental agencies, university teachers and students as well as HVAC and energy industry.

Members of Editorial Board are proposed by the Marketing and Publishing Committee (PMC) and approved by REHVA Board. The PMC may appoint a guest editor for a specific issue of the journal.

The tasks of the Editorial Board

- developing the publishing policy of the REHVA journal
- follow up the quality of the journal in respect of technical contents, lay-out, advertisement, liability and circulation
- assist editors in getting good, relevant material to the journal
- assist the publisher in promoting the journal
- positioning of the journal amongst other journals
- evaluation of articles submitted to the journal
- encourage the national journals to republish the material from REHVA Journal

Editorial Board meets at least once a year, during the REHVA General Assembly. Additional meeting may be arranged.
Appointment of the members

Members are proposed by PMC and appointed by the REHVA board for one year at time. The PMC may appoint a guest editor for a specific issue of the journal.
Appendix 2

Instructions to the authors of the REHVA European HVAC Journal 2015

Content of the journal

Most of the readers of the REHVA European HVAC Journal are top level professionals: practitioners, designers, contractors, authorities and manufacturers, only a minority of the readers have scientific positions. Please address in your article the practitioners, not the scientists.

- The journal looks particularly for technical articles about interesting new applications and case studies with verified performance data.
- The year 2015 is particularly focusing on Energy Efficiency of Buildings.
- The journal does not publish advertisements as articles, the sections for product news and advertisements are for that.
- The optimal length of the article is 4-5 printed pages, which means about 1500 words plus 4 figures for the manuscript. One journal page is 3500 characters (with spaces) plus one ¼ page figure. Use at least one figure per page to make the page more attractive for the readers.

Website

The journal is published in PDF version and is available online. [http://www.rehva.eu/publications-and-resources/hvac-journal/](http://www.rehva.eu/publications-and-resources/hvac-journal/)

Each article or the whole journal can be downloaded in pdf – format and reviewed and searched in html- format.

Material requirements (please see the example below)

- Text files must be submitted as Microsoft Word document format (.doc or docx). Text should have the following structure.
  1. Title of the article should be brief, yet informative to the general reader. The maximum length for title is 8 words.
  2. Include authors' complete information with the place of work and email address.
  3. Include in the manuscript 5-10 keywords illustrating the main contents of the article. The key words are used for the search engines.
4. Ingress is an introduction that summarizes the purpose and goals of the article. Try to make your ingress as interesting as possible, so that it invites to read further. The maximum length for ingress is 50 words.

5. Use headings (no numbering) to divide your text in order to make it easier and more interesting to read.

6. Tables are to be submitted as editable Word or Excel files, not as pictures.

7. Please use bold / italic type instead of underlining words to be bolded / italicized.

8. Use the word “Figure” for figures and “Table” for tables. Use bolded font where figures and tables are mentioned in the text.

9. Send portraits of all authors as separate jpeg files.

10. Send the e-mail and postal delivery address of the corresponding author.

- Figures must be submitted as separate files in press quality format. Include the most original figure file possible. Recommended file format is PDF. Acceptable file formats include EPS, XLS, TIF and JPG (minimum resolution for bitmaps is 250 dpi.) Please use illustrations, tables or figures, min one per printed page and write legends (captions) for each figure and table in the text. If you wish, you may insert the figures also straight in your word-document for clarity, but always remember to send the figures also as separate high quality files.

Language

- All authors are requested to have the manuscripts checked by a native English speaker before sending it for publication.
- The journal may edit your manuscript and make suggestions on how to change it to serve the readers better.

Mailing of the journal

- A copy of the journal will be sent to the addresses of author(s). All authors are requested to send their delivery addresses, with the manuscript to the editor of the journal.

For further questions, please contact Cynthia Despradel at cd@rehva.eu.
### Appendix 3

#### 2015 REHVA Journal website statistics

REHVA Journal website visitors in 2015

<table>
<thead>
<tr>
<th>REHVA Journal 2015 abstracts - homepage</th>
<th>Viewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/January - EFFECT OF EPBD ON EUROPEAN BUILDINGS</td>
<td>614</td>
</tr>
<tr>
<td>02/March - EUROPEAN HVACR TECHNOLOGIES</td>
<td>683</td>
</tr>
<tr>
<td>03/May - ENERGY EFFICIENT HEATING</td>
<td>712</td>
</tr>
<tr>
<td>04/August - QUALITY AND COMPLIANCE AND AIR CONDITIONING SYSTEMS</td>
<td>712</td>
</tr>
<tr>
<td>05/October - INDOOR AIR QUALITY</td>
<td>600</td>
</tr>
<tr>
<td>06/December - ENERGY EFFICIENT RENOVATIONS</td>
<td>550</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Most viewed articles in 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viewed articles in 2015</strong></td>
</tr>
<tr>
<td>Refrigerants - Part 1: properties and air – conditioning applications</td>
</tr>
<tr>
<td>How to improve energy efficiency of fans for air handling units</td>
</tr>
<tr>
<td>Revision of EN 15251: Indoor Environmental Criteria</td>
</tr>
<tr>
<td>HVAC&amp;R market in Europe, the Middle East and Africa (EMEA)</td>
</tr>
<tr>
<td>Improved energy efficiency of air cooled chillers</td>
</tr>
<tr>
<td>How to define nearly net zero energy buildings nZEB</td>
</tr>
<tr>
<td>Requirements for Seasonal Efficiency for Air-conditioning Units</td>
</tr>
<tr>
<td>CO2 Heat Pumps in Europe Market Dynamics &amp; Legislative Opportunities</td>
</tr>
<tr>
<td>nZEB definitions in Europe</td>
</tr>
<tr>
<td>Field test of a novel combined solar thermal and heat pump system with an ice store</td>
</tr>
</tbody>
</table>