

# Published – English Natural Refrigerant Textbook Now Available

*Written by top global experts, the 'Natural Refrigerants: Applications and Practical Guidelines' textbook is now available in print, digital and bulk copies.*

BRUSSELS, BELGIUM, February 7, 2022 /EINPresswire.com/ -- To address the global training



We are delighted to offer our contribution to the training of refrigeration engineers and technicians worldwide via this textbook written by renown experts in their respective natural refrigerant.”

*Professor Michael Kauffeld*

barrier for the uptake of natural refrigerant systems, ATMOSphere (formerly shecco) has partnered with technical publisher VDE Verlag to translate its [2019 German textbook](#) on natural refrigerants into English.

Written by the top academics in the field, VDE Verlag's original Natürliche Kältemittel – Anwendungen und Praxiserfahrungen, offers a comprehensive practical guide to working with natural refrigerants, including CO<sub>2</sub>, ammonia, HCs, and water. The English edition has been improved and adapted for a global audience, particularly with reference to standards.

Print and e-book editions of the English translation are available at the [VDE online shop](#) for €59. Combined pricing (e-book + print) is available for €82.60.

\*About the book\*

The textbook presents the experiences and techniques of industrial refrigeration and transfers them to commercial refrigeration applications. It also covers general conditions and legal requirements for the use of natural refrigerants, the economic efficiency of the refrigeration systems and additional information on handling these systems. Tables, pictures and system diagrams are used to show examples of practical implementations.

The book was the brainchild of Professor Michael Kauffeld of the Karlsruhe University of Applied Sciences in Germany, who wrote the chapters on thermophysical properties, ice slurry and N<sub>2</sub>O as a refrigerant for applications below -50°C (-58°F) focusing on air-cycle technology. He is one of the textbook's three editors. The others are Michael Eckert, Co-Owner and Chief Engineer at the ammonia refrigeration company Kälte Eckert, and Professor Volker Siegismund of Baden-

Württemberg Cooperative State University in Mosbach.

Each chapter is written by an expert in the specific area. Professor Armin Hafner of the Norwegian University of Science and Technology wrote the chapter on CO<sub>2</sub>; Eckert contributed the ammonia chapter; Joachim Schadt, Managing Director and Owner of Secon, a company that builds hydrocarbon chillers, and his colleague Nina Schultz wrote about hydrocarbons; and Jürgen Süss, former CTO of Efficient Energy, the company that developed the water-only eChiller, together with his colleague Florian Hanslik and Kauffeld, covered water as refrigerant.

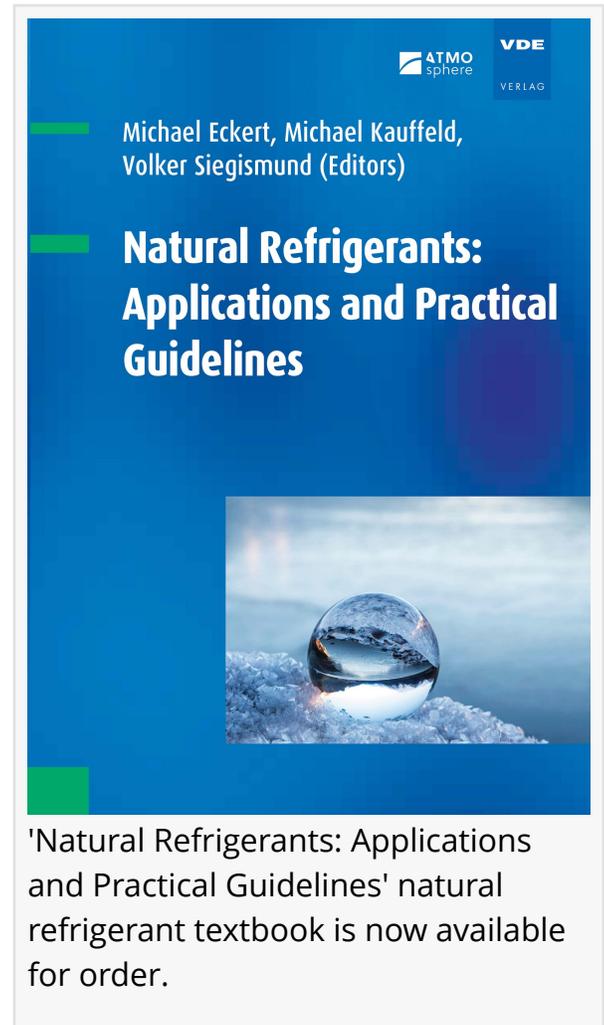
“For many years, international organizations like UN Environment Program (UNEP), UN Industrial Development Organization (UNIDO) and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) have been looking for appropriate teaching material for natural refrigerants in order to enable Article 5 countries to leapfrog directly from CFCs or HCFCs to the final and only environmentally sound solution: natural refrigerants,” explained Kauffeld. “We are delighted to be able to offer our contribution to the training of refrigeration engineers and technicians worldwide via this textbook written by renown experts in their respective natural refrigerant. You’ll find several hundred years of accumulated knowledge about natural refrigerants in our book. I hope that the book will be able to make a difference.”

“Although the process was more challenging than anticipated, I want to sincerely thank the authors and wider project team for their commitment and hard work to the vision of this textbook,” said Ilana Koegelenberg, ATMOSphere Co-Founder and Market Intelligence Manager. “Time and time again lack of widespread, accessible training and resources are cited as a barrier for the accelerated development of natural refrigerants globally. That is why I am so excited that this incredible textbook is now also available in English to support the transition to a cleaner, more sustainable future for all.”

Visit the [VDE Verlag webshop](#) to find out more or purchase the book.

\*Bulk copies\*

The book is also available in bulk at a reduced item price (for 100 copies or more). For these copies, companies can also include their own branding on the front page, making this an ideal



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Ilana Koegelenberg

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