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World Water-from-Air Companies & Products Handbook 2nd Edition



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Atmoswater Research
September 2024

World Water-from-Air Companies & Products Handbook: 2024 Second Edition

Roland V. Wahlgren, Atmoswater Research

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DEDICATION

To everyone passionate about the value of the water-from-air industry
for helping to solve problems of water scarcity.

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PREFACE

The author compiled the information in this *Handbook*. It is reviewed and updated periodically. Comments, criticisms, and suggestions regarding the subject matter for future printings or editions are invited. Any errors or omissions in the contents should be brought to the attention of the author (atmoswater@gmail.com). In no way is the use of trade names intended to imply approval of any source or brand name over other similar ones not mentioned in the book. Product, company, or trade names should be presumed to be trademarks or service marks of their respective companies. Tables, figures, and photographs are by the author unless otherwise noted.

1 INTRODUCTION

The purpose of this handbook is to guide the reader to the companies (manufacturers, distributors, and dealers) actively marketing and selling water-from air systems (atmospheric water generators or AWGs). On the internet you can find websites for about one hundred companies involved in the industry. Of these, 41 appear to be ready to sell and deliver their products and are included in this handbook. Some companies market only one product, while others market 15 models. Approximately 190 distinct AWG models exist currently. The total count of product line items listed in this handbook is 224 but this includes duplicates as offered by manufacturers' distributors or dealers.

Getting a grasp on this complex market, whether you are a seller or buyer is a daunting task. This handbook is a timesaving and money-saving tool for everyone needing to understand what products are available and from whom they can be purchased. Maps show the location of each company. Website addresses are given so you can learn more about the companies and products that interest you.

AWG companies were selected by the author. The listings are free of charge to ensure the independence of this handbook. Signs that a company is actively selling AWGs include case studies, social media posts, and a recent year copyright statement on the company website. Product information in this handbook was compiled from company websites. Product details were often scattered throughout these websites in text, Frequently Asked Questions (FAQ) sections, videos, manuals, and online brochures. The value of this handbook is that company and product details are organized in a consistent format (with some exceptions for page layout reasons) for ease in finding the data you need. Product photos are included for companies who kindly gave permission to use their photos. These photos are not to scale. Product sizes are given by dimensions and scale drawings. For smaller machines, plan, front elevation, and side elevation views are shown drawn to scale. For larger equipment, isometric dimensioned views are shown drawn to scale. Dimensions are from the product's webpage. A human figure, representing someone 69 inches tall (the average height of a North American male) is shown beside the scale drawings. If you are interested in a product photo for which a photo is not included in this book, simply visit the company's website. The user of this handbook is responsible for doing their own due diligence before making buying decisions. Wise advice from Roman times, *caveat emptor* (let the buyer beware), should still be heeded.

Most of the products listed here use mechanical dehumidifier technology. Exception are the desiccant dehumidifier type products by HurRainNanoTech Co., Ltd. and SOURCE® Global, PBC.

This handbook is more than a company and product guide. Chapter 2 explores how water scarcity creates a demand for technological solutions like AWGs. Two types of AWGs are discussed: mechanical and desiccant dehumidifiers. The atmospheric water vapour resource needed by AWGs is mapped and analyzed.

Chapter 3 offers the perspective that the documents about the United Nations Sustainable Development Goal 6: Water & Sanitation are the results of a global market survey, pointing to the locations on Earth where people would benefit greatly from the use of AWGs as water and hygiene services. Chapter 4 is the Companies & Products section.

Two associations relevant to the water-from-air industry (AHAM and ASSE) are listed in Chapter 5. Their products are standards publications relevant to water-from-air systems. Purchase them online from the organizations. Five foundations and groups focused on the AWG industry are listed in Chapter 6.

In the Appendices we discover 12 products have manuals online, 43 products have prices listed, and 32 products are available to purchase online. For ease of reference the Appendices include a list of *Abbreviations and Acronyms* and a list of *Units and Symbols*. Atmoswater Research and Canadian Dew Technologies Inc. hold some of the knowledge base for the water-from-air industry. To make this knowledge conveniently accessible the final two sections of this handbook catalogue their many digital goods available for purchase and download