

WHITE PAPER

USING A SPECIFICATION LIBRARY FOR HUMIDIFICATION PROJECTS

EXECUTIVE SUMMARY

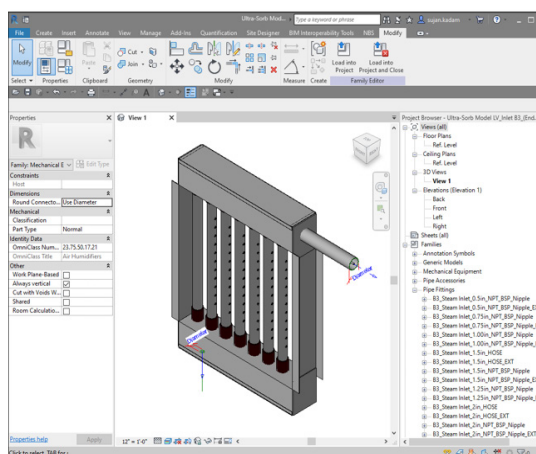
Architects, designers and other specifiers use 3-D models from product manufacturers – files that contain all the relevant data needed to make a decision about a building product. It's critical that these specifiers have access to online tools that allow them to research products and connect with building product manufacturers.

With more government agencies requiring traceability in building design, including access to the details of the equipment used, these models allow specifiers to provide this information and prove their accountability.

BIM content for all DriSteem's humidification systems are available for download online at a number of provider sites including [SpecifiedBy](#), [BIMobject](#), and [ARCAT](#) – delivering the fastest, simplest way to find and compare products during the research process.

These sites provide not only REVIT and other digital resources, but also specifications and other equipment details.

BIM adoption varies by country and by project type. The earliest adoption and largest adoption of BIM is in the [UK followed by Germany, Poland and France](#).



DriSteem Ultra-sorb® LV steam dispersion panel

INCORPORATING HUMIDIFICATION INTO DESIGNS

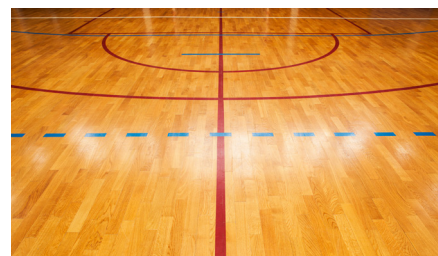
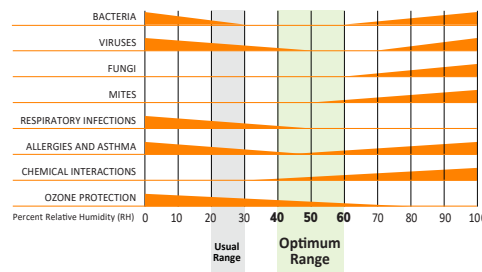
Importance of Humidification in Building Design

Proper humidification is extremely important for many applications and must be considered up front during the building design process. Factors to consider include the intent (humidification or cooling), the humidification load, available energy sources, quality of the supplied water, where the moisture will be dispersed, and the level and type of controls needed.

Failure to consider all factors may result in a system that operates inefficiently, doesn't meet the intended requirements, or can cause unintended consequences due to poorly managed moisture. With a good design, properly controlled humidification can promote health and safety, improve productivity, extend the life of materials, and enhance occupant satisfaction.

Here are some common uses of humidification:

- **Indoor Air Quality:** Studies have shown that the optimum range for relative humidity (RH) is between 40-60%. Bacteria and viruses thrive in dry air where the relative humidity is less than 40%. Keeping the relative humidity under 60% hinders the development of fungi, mites, and chemical interactions. Proper humidification can reduce occurrences of allergic rhinitis, respiratory infections, and asthma, which in turn reduces absenteeism.
- **Material Preservation:** Many building materials, finishes, furnishings, and artifacts are hygroscopic, meaning they absorb, retain, and release moisture. Fluctuating humidity can cause damage to these sensitive materials due to the cyclical contraction and expansion as the moisture content changes. Maintaining consistent relative humidity levels helps to preserve these materials and extend their life.
- **Process Control:** Many manufacturing processes can be impacted by relative humidity. Maintaining proper humidification can keep production rates high, improve product quality, and reduce scrap. Low relative humidity can also cause problems with static electricity which can damage electrical components, ignite combustible materials, and cause dust particles to adhere to sensitive materials.



- **Improves Comfort for Building Occupants:** The human body is highly sensitive to relative humidity levels. As a body's moisture migrates (evaporates) to areas of lower relative humidity, it becomes cooled. Raising the relative humidity level in a room slows the evaporation rate and will make the room feel warmer. Controlling relative humidity levels can impact the comfort level of the occupants.
- **Promotes or Inhibits Biological Growth:** Many plants and biological organisms are affected by the relative humidity level of the environment they are in. Controlling the relative humidity level can either promote biological growth or inhibit it.



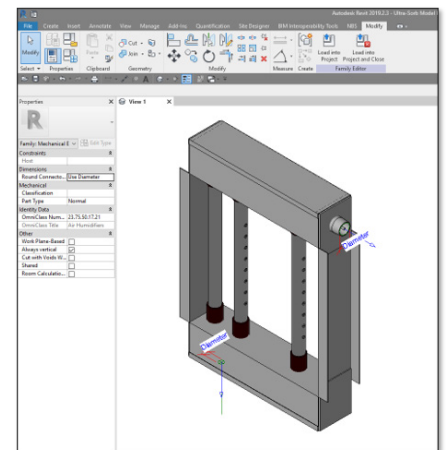
BIM HUMIDIFIER MODELS

A Building Information Model is a digital representation of the physical and functional characteristics of the project (as defined by AIA Document E202- 2008- 1.2.1).

These models are used in Building Information Modeling, which is the process of designing, constructing or operating a building or infrastructure asset using electronic object-oriented information (as defined by PAS 1192-2:2013).

Building Information Models, also known as BIM objects, are available in a number of file formats for use with the most popular software, including REVIT (.rfa), Autodesk AutoCAD (.dwg), and Sketchup (.skp).

SpecifiedBy, BIMobject, and ARCAT each host these formats for DriSteem humidifiers along with the product dimensions, certifications and ratings, brochures, case studies, operations and maintenance literature, images, specifications, and other technical documentation like submittals.



USING SPECIFIEDBY



[SpecifiedBy](#) was built by specifiers to provide the fastest, simplest way to find, research, and compare products. Their unique search engine makes every attribute of a product searchable, making it easy to find products. Their goal is to make finding the best building product for a particular project, as simple and quick a process as possible.

SpecifiedBy offers many resources for those who are new to the process or need assistance using the website:

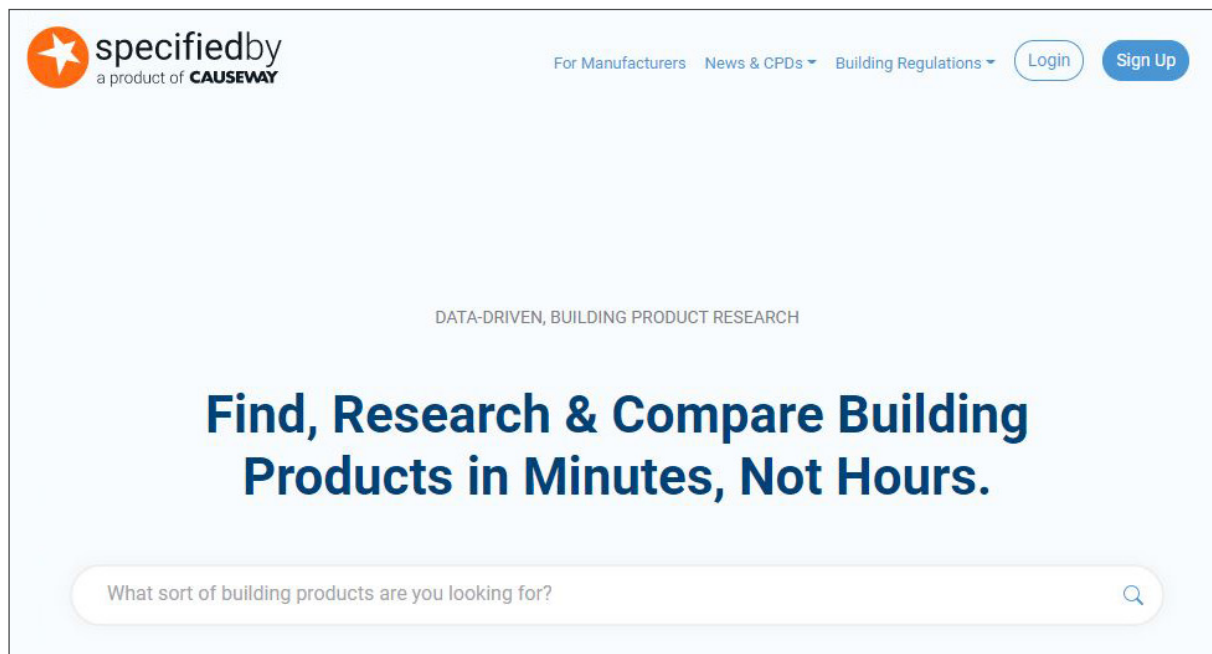
support.specifiedby.com/help/specifiers – Offers instructions for creating your free account, searching for products or manufacturers, creating projects and folders, using specification tables, and building product comparisons.

www.specifiedby.com/resources/bim-dictionary#building-information-model – Provides a comprehensive dictionary of terms that are used in building information modeling

www.specifiedby.com/building-regulations – A list of approved building regulations documents

GETTING STARTED

Simply go to SpecifiedBy.com and register to create your free account.



USING BIMOBJECT



[BIMobject](https://www.bimobject.com) is on a mission to digitalize construction for a more sustainable future. They are a global marketplace for the construction industry that provides architects and engineers with the information and inspiration they need to design buildings faster, smarter and greener.

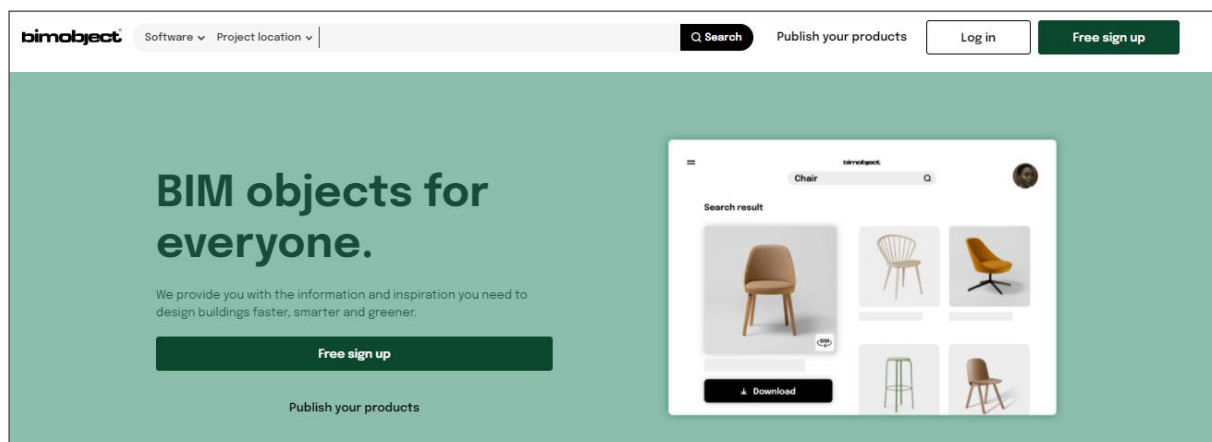
BIMobject has a robust search engine that allows the user to filter results by sustainability type, brands, categories, countries of manufacture, and file type. The user can then create a product collection and easily share it with colleagues.

Another feature that BIMobject offers is the ability to switch the language of the site. It is available in the following languages:

Čeština	Español	Português
Dansk	Français	Português (Brasil)
Deutsch	Français (Belgique)	Shqip
Deutsch (Österreich)	Français (Canada)	Suomi
Deutsch (Schweiz)	Français (Suisse)	Svenska
English	Italiano	Thai
English (Australia)	Italiano (Svizzero)	Türkçe
English (Canada)	Magyar	Русский
English (India)	Nederlands	한국의
English (Ireland)	Nederlands (België)	中文
English (New Zealand)	Norsk	中文 (香港)
English (US)	Polski	日本語

GETTING STARTED

Simply go to [BIMobject.com](https://www.bimobject.com) and sign up to create your free account.



USING ARCAT



[ArCAT](#) offers extensive and consistent CAD, BIM, and specification libraries. The ARCAT BIM library has thousands of data-rich BIM objects and systems, all available in RFA, RVT, DWG, and other formats.

ARCAT's patented SpecWizard is an automated spec writing tool with a simple to use interface. SpecWizard automatically configures a complete CSI 3-Part Formatted specification in just minutes.

ARCAT offers many resources; here are links to a few:

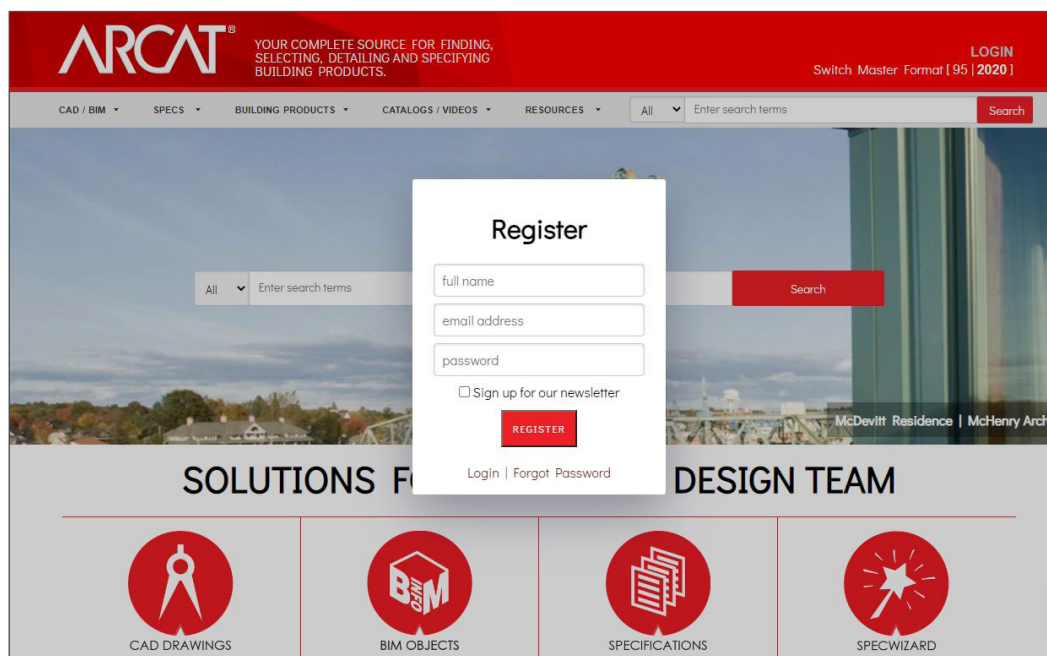
[arcat.com/ces](#) – AIA Continuing Education Systems (CES) with links to building product manufacturers and associations that provide continuing education for the architectural community.

[arcat.com/architectural_resources](#) – Additional web sites, podcasts, tradeshow, and more for architects, engineers, landscape architects, contractors, and students.

[arcat.com/arcatect-news](#) – An email newsletter sharing the best architectural stories each month.

GETTING STARTED

Simply go to [ARCAT.com](#) and register to create your free account.

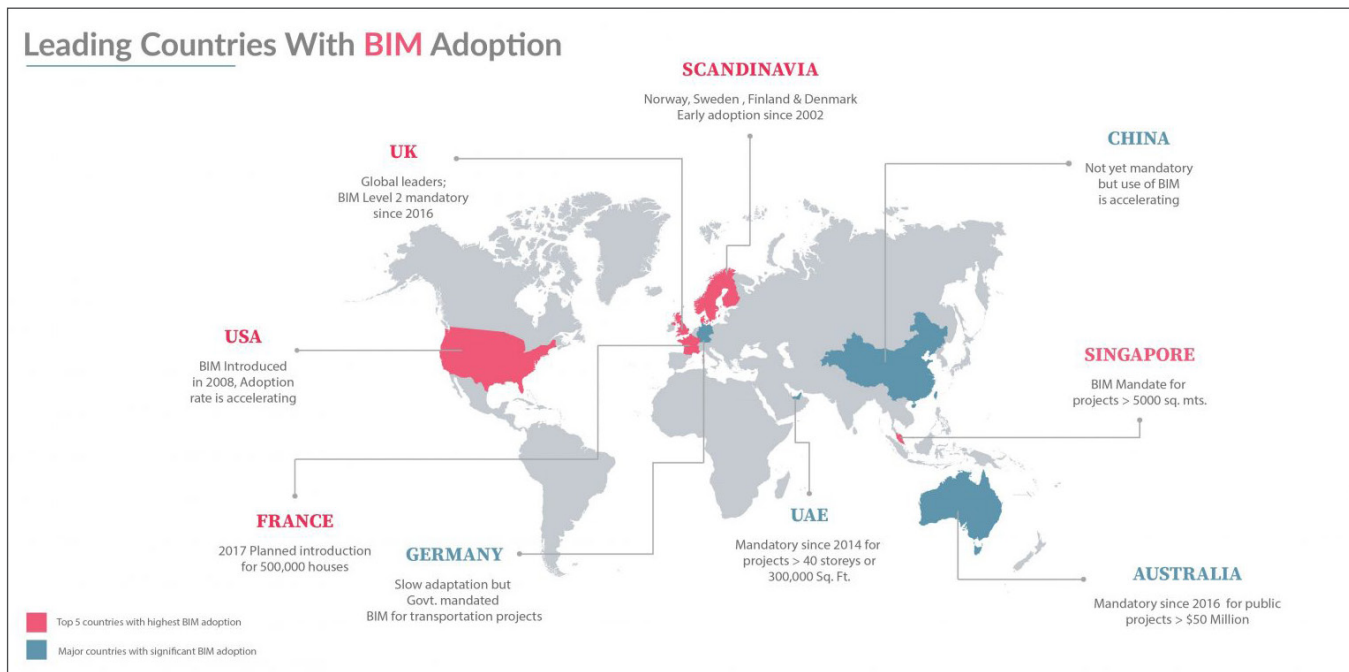


ADDITIONAL INFORMATION

Leading Countries With BIM Adoption

The world around us is becoming technologically advanced every day. With increasing urbanization and smart cities gaining momentum, all the major countries around the globe have started paying attention to its adoption of BIM. Adoption of BIM can help the country create a strong foundation on the infrastructure side, so it sets an example to others.

United BIM published the map below to illustrate how different countries across the globe are progressing in BIM adoption.













Go to www.united-bim.com for more information.

ADDITIONAL INFORMATION

Who's winning the BIM adoption game in Europe?

The UK remains the leader in BIM implementation in construction, compared with other European nations, according to analysis of BIM adoption throughout Europe conducted by software company PlanRadar, but there's clear evidence other countries are catching up.

PlanRadar analyzed research, examined government policy documents and conducted interviews to discover why BIM is being deployed in each country, and to gauge construction professionals' attitudes to digital technology tools in their industry. It also explored where swift growth in BIM is most likely in the coming years, and which governments have progressed furthest in making BIM mandatory.

State of BIM Adoption in 2021: 7 Top Countries Compared			
	 The most common BIM level(s)	 When did BIM become mandatory?	 Percentage of construction companies that use BIM
 UK	2, with development towards 3	2016 for government projects	73%
 Germany	1, some cases of 2 and 3	2017 for projects worth over €100 million	70%
 Poland	1, growing rates of 2	2030 for capital construction projects with a state budget	43%
 France	2	1 st January 2022	35% – real estate 50 – 60% of construction companies
 Croatia	0, some cases of level 1	Not currently mandatory	25% of designers 4% of contractors
 Austria	1, with local standards pushing for 3	2018 – 20 for cost control in public buildings	20%
 Russia	1, growing rates of 2 and 3	1 st March 2022 for all government-funded projects	12%

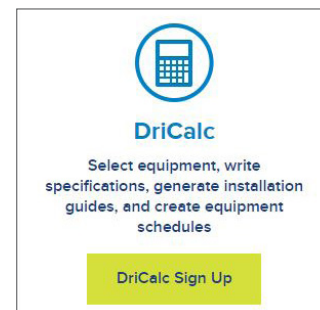
Go to www.bimplus.co.uk for more information.

DRICALC® SIZING AND SELECTION SOFTWARE FROM DRISTEEM

Free Registration

DriSteem also offers access to DriCalc, a free sizing and selection software for humidification systems.

To register to use DriCalc, visit the DriSteem website, navigate to the [Calculators & Selection Software](#) page and click on [DriCalc Sign Up](#). Fill out the form to Register for DriCalc. The request will be forwarded to the local DriSteem Rep for approval. The [Find A Rep](#) link at the top of the home page will help identify your nearest Rep.



Register for DriCalc Sizing and Selection software at www.dristeem.com.

Training Resources

DriSteem has extensive resources available to assist you in learning more about DriCalc as well as humidification products and water treatment systems. Check out the [DriSteem website](#) and our channels on [YouTube](#) and [Vimeo](#). Follow us on [LinkedIn](#), [Twitter](#), and [Facebook](#).

Video tutorials are also available within the DriCalc sizing and selection software.

DRISTEEM.COM RESOURCES



DriSteem Website



YouTube & Vimeo



Classroom Training



Social Media

- Industry Publications
- Case Studies
- White Papers
- Design Guides
- Articles
- Glossary
- Brochures
- Catalogs
- Product Resources
- Technical Support
- Video Library
- Installation and Operation Manuals
- Service Kit Manuals
- References Guides
- Handbooks
- Charts
- Flyers
- Cut Sheets
- Drawings
- Piping Instructions
- BIM Models

DRI-STEEM Corporation
a subsidiary of Research Products Corporation
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Continuous product improvement is a policy of DriSteem; therefore, product features and specifications are subject to change without notice.

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EXPECT QUALITY FROM THE INDUSTRY LEADER

Since 1965, DriSteem has been leading the industry with creative and reliable humidification solutions. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

For more information:

www.dristeem.com
sales@dristeem.com

For the most recent product information visit our website:

www.dristeem.com