

# EUROPEAN HVAC PRODUCT DATABASE FOR MANUFACTURERS

## PRODBIM – DATA SOLUTIONS

---

**PRODBIM – Eurovent Summit – Oct. 2022**

## INTRODUCTION

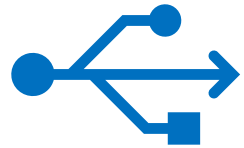
### Situation & trends

## Increasing need in data in Building Industry

Standardisation transformation

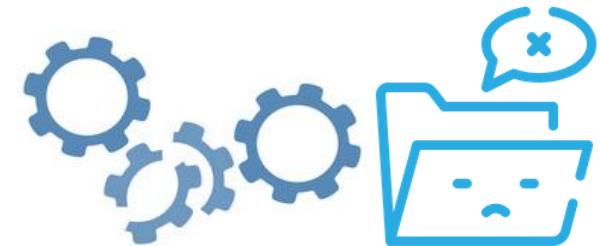


Mandatory for all public buildings  
in Germany from 2023, in Italy from 2025



## Multiple platforms for data publication

Recopy with typing mistake risks or  
**missing data**

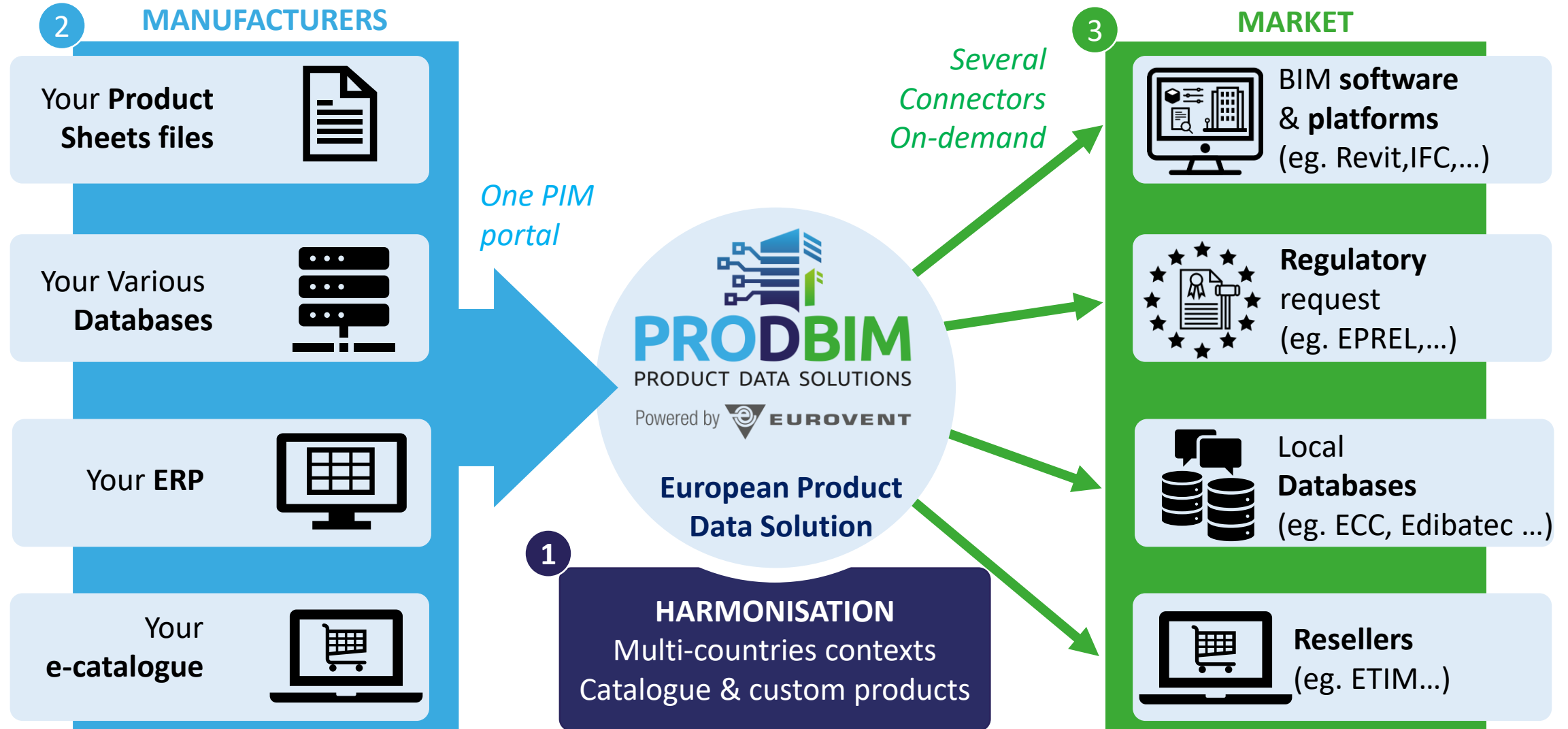


Need to create **strong links** between  
manufacturer's data and projects users



# PRODBIM

## Services overview

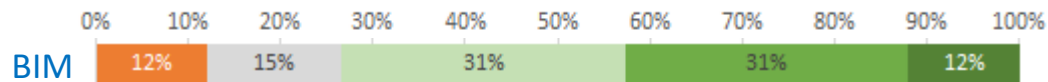


## MANUFACTURERS

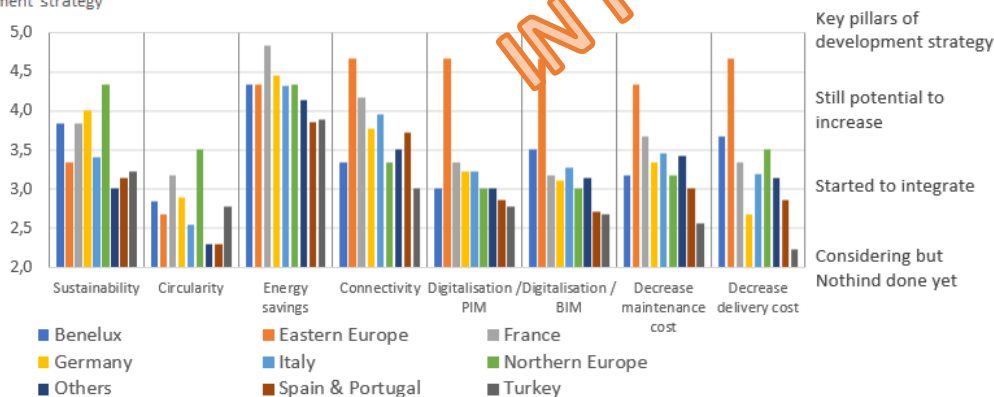
# USE CASES CURRENT MANUFACTURERS

Very heterogeneous

How important are the following strategies in your company?



- Not important at all, we are not going to include it in our strategy for the moment
- We are considering including it in the strategy, but nothing is done yet
- We started to integrate the key principles, but we are still at the beginning
- We have integrated it to several areas of our business but there is still potential to increase
- It's one of the key pillars of our development strategy



## USE CASE AIR CONDITIONING LEADER

- Leader (2021 : 65 millions air conditioners, from single split to large chiller, 30 billion € turnover)
- ✓ Data on Eurovent Certita Certification website
- ✓ Data available in Edibatec
- Need to answer about public buildings, but also appetite of prescribers for data
  - 2021 : opening of a BIM library
  - Mi-2021 already **1500 downloads** (1/3 in UK)
  - 2022 : 1st BIM object BIM including certified data

## MOST OF MANUFACTURERS

- ✓ ECC data available on Eurovent Certita Certification website
- ✓ Sometimes present on local databases like Edibatec or VDI3805
- EPREL (European energy label) to be declared or to update (still beta version)
- Some not yet in BIM



## FEATURES

- Creation/modification of products according to PRODBIM and ETIM taxonomies
- Association of digital assets (image, documents, etc.), 10 Go per Participant
- Eurovent Certita Certification product database automatically integrated
- Export data in **Excel** and **json** formats
- Available for both ECC certified and ECC non-certified products

The screenshot displays the Syndigo PIM Tool interface. On the left, a sidebar contains navigation links for Quick Actions, Open Apps, Home, Search, and Digital Asset Library. The main area is divided into two sections. The top section, titled 'Search Thing Do...', shows a search bar with 'GMV-224' and filters for 'Type: Certified Model', 'Supplier Ownership: 'sup503'', and 'Created Date'. Below the search bar is a table of search results with columns: Reference Name, Certified Range, ECC Model number, ECC Certification, Last modification time, and Certified Brand. The table lists four GMV-224WM models. The bottom section, titled 'Manage Certified Model GMV-224WM/H-X', shows details for a specific model, including ECC Model number (201409286), Certified Range (GMV6), Certified Brand (GREE), and ECC Certification ([HP/VRF/A/R...]). A dropdown menu is open under the 'Attributes' tab, showing options: .Export, .Generic, .System Attribute, .View all attributes, and ECC. Published. The right sidebar contains tabs for Summary, Attributes, Assets, and Entity Network, with a search bar and a list of relationships and assets.

Reference Name	Certified Range	ECC Model number	ECC Certification	Last modification time	Certified Brand
GMV-224WM/E-X	GMV5E	195517823	[VRF/A/R]Variabl...	29/09/2022 14:02:28	
GMV-224WM/H-X	GMV6	201094151	[VRF/A/R]Variabl...	29/09/2022 14:02:27	
GMV-224WM/H1...	GMV6	201398577	[VRF/A/R]Variabl...	29/09/2022 14:02:30	
GMV-224WM/G-...	GMV6	201095177	[VRF/A/R]Variabl...	29/09/2022 14:02:28	

- Under finalisation:  
**API management** for automated queries and updates

USE CASE PIM TOOL

MANUFACTURERS

Syndigo platform – Example: Media management

Welcome Back, SMA system admin SI!



Quick Actions

1  
Open Apps

Home

Search

Digital Asset  
Library

# Search Digital Asset Lib... Reset

Search

Filter

Type: Image, Document

Supplier Ownership

Prodbim Type of document: "TECHNICAL DOCUMENTATION"

show "Image and Document" with Prodbim Type of document = "TECHNIC... Last refreshed now | 1 - 50 / 2023

Actions



<input type="checkbox"/>	Thumbnail ...	File Name	Prodbim Type of document	Eprel Type of technical do...	Create Date	File Size
<input type="checkbox"/>		A250- SNELLE WINE 20...	TECHNICAL DOCUMEN...	CALCULATIONS   MESU...	27/09/2022 14:02:52	805566
<input type="checkbox"/>		ZM00120AT Rev. 0_10_...	TECHNICAL DOCUMEN...	GENERAL DESCRIPTION...	27/09/2022 13:58:32	4668389
<input type="checkbox"/>		SABRINA 70 TBV_sup16...	TECHNICAL DOCUMEN...			

Quick Actions

2  
Open Apps

Home

Search

Digital Asset  
Library

Reference Data  
Library

Visual Analytics

...

## Upload Assets

Close

1

Upload Assets

2

Finish

Next



Drag & Drop files here

Upload File

## DATABASE USED ON THE WHOLE LIFECCLE

- Design
- Supply Chain
- Construction
- Asset Management

## BIM&CO CREATED BY AND FOR END-USERS

- Onfly private library created 6 years ago
- Structure objects
- Improve data interoperability from one software to the other
- Boost collaboration between functions thanks to BIM process
- Ensure information continuity

## MARKET

- [BIM&CO online public library](#) (230k users, 20k unique visitors/month), mostly used platform in France & Southern Europe
- Onfly: private BIM libraries of 26 key customers (Egis, Grupotec, Engie, Dalkia, ArcelorMittal, Equans, Veolia, etc.)
- [FISA](#) libraries (1<sup>st</sup> technical software in France)
- Export to [Traceparts](#) HVAC library (90k users)
- Revit Plug-in the most downloaded in Europe (100k users)

## COLLABORATION WITH EUROVENT CERTIFICATION

- Certified data, can be 100% trusted (ex: RE2020)








## Variable refrigerant flow systems


Air cooled, reversible

Range	Diploma nb.	Participant	Brand
GMV6	17.02.283	GREE ELECTRIC APPLIANCES INC. OF ZHUHAI	GREE

<div><div>Help</div><div>Export CSV</div><div>Download PPR</div><div>Export All Data</div></div> <div>Navigate between your results &lt;GREE/GMV6</div>																		
			Standard Cooling/Cooling PL Cond A			Heating			Acoustics		SeasonalCooling		Cooling PL Cond B		Cooling PL Cond C		Cooling PL Cond D	
<input type="checkbox"/>		Model	Pc out kW	Pec out kW	EERout	Ph out kW	Peh out kW	COPout	LwO env dB(A)	SEER	ηsc %	PcB kW	EERB	PcC kW	EERC	PcD kW	EERD	
<input type="checkbox"/>		GMV-224WM/H-X	22.4	7.32	3.06	22.4	5.6	4	80	7.1	281	16.5	4.7	10.58	8.65	5.65	16.5	



Automated link to Prodbim



Search Thing Domain Reset

Q 224 Filter Type: Certified Model Certified Range: "GMV6"

show "Certified Model" with Certified Range = "GMV6" and \_A... Last refreshed 34 seconds ago 1 - 6 / 6 Actions

	Reference Name	Certified Range	Certified Brand	ECC Certification Product type
<input type="checkbox"/>	GMV-224WM/H-X	GMV6	GREE	[HP/VRF/A/R]Variable Refrigerant Flow, Air cooled, Reversible
<input type="checkbox"/>	GMV-224WM/G-X(S)	GMV6	GREE	[HP/VRF/A/R]Variable Refrigerant Flow, Air cooled, Reversible

## Manage Certified Model GMV-224WM/H-X



ECC Model num...	Certified Range	Certified Br
201409286	GMV6	GREE
Supplier	Reference Name	
GREE ELEC...	GMV-224W...	

Summary **.Export Attributes** Assets Entity Network

For BIM&Co

TRUE FALSE

Choice to open connector







Outdoor unit VRF GMV6 - Certified Eurovent

Created: 01/11/2022 by Bastien Jean  
Last update: 01/20/2022 by Jack Projeteur BIM

● Air-sourced variable refrigerant flow

GREE



Outdoor unit VRF GMV6 - Certified Eurovent

Created: 01/11/2022 by Bastien Jean  
Last update: 01/20/2022 by Jack Projeteur BIM  
#2 Update

Outdoor unit VRF GMV6 224



Preview

GREE

New generation of outdoor unit, GMV6 2 pipes.

Classification

● Air-sourced variable refrigerant flow

Sets

Properties Files Information

Acoustic

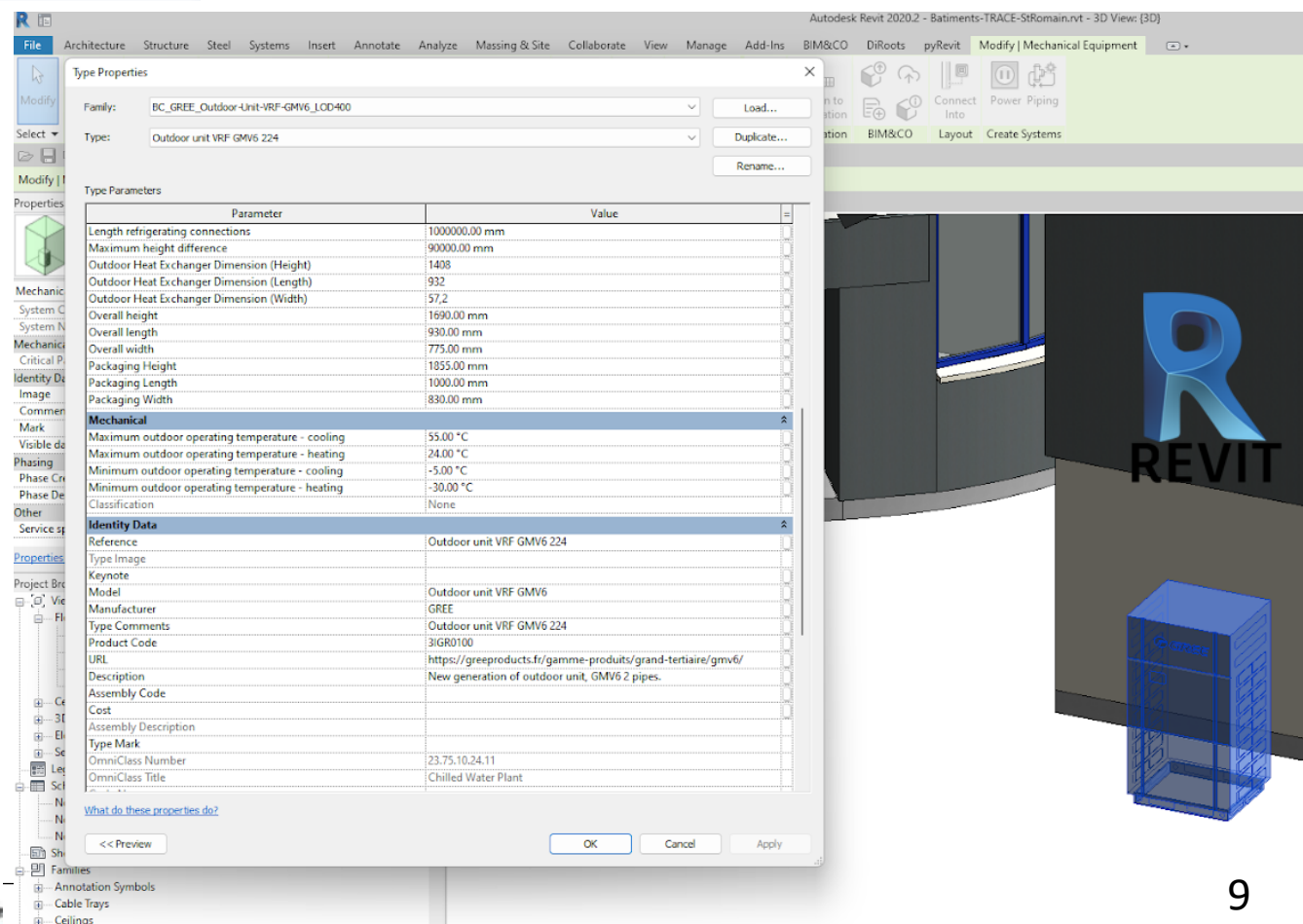
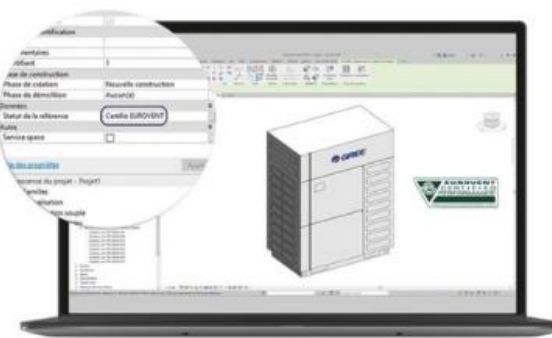
Conception

Name	Unit	Value
Inverter		true
Refrigerant		R410A
Max No. of IU		4
Mounting		ducted
Cassette Type		

*BIM object  
available to  
the user in its  
own working  
environment*



Onfly



Dedicated BIM service,  
more **qualitative**



Data controls at chain  
beginning, **certified data  
embedded**, for trustworthy  
data objects



**Competitive advantage**,  
thanks to a big products  
visibility



Opening  
**new markets**

A single entry point  
**saving time**,  
**improving productivity**,  
**data up-to-date**



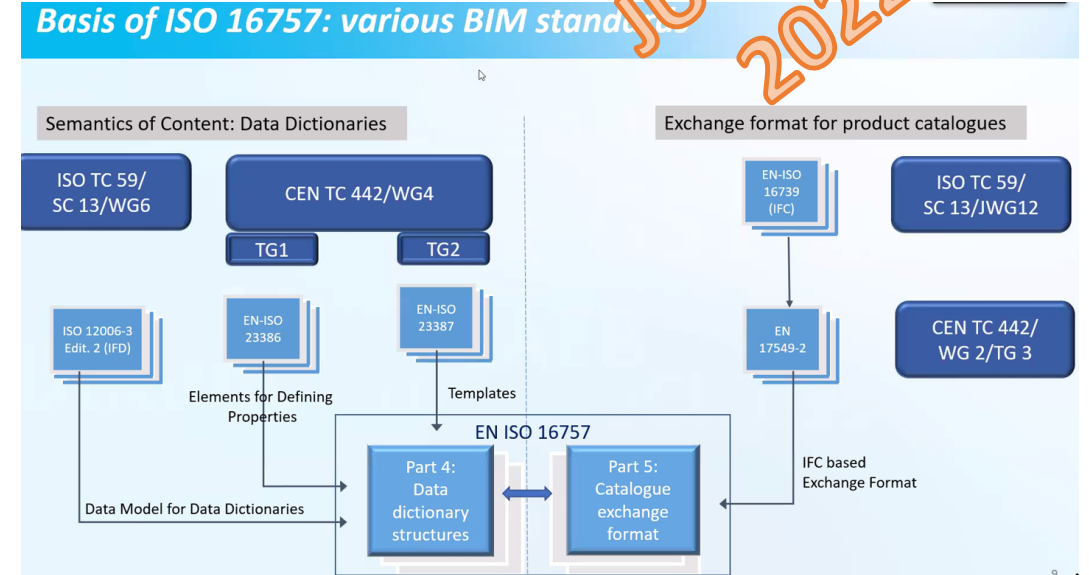
JUST STARTED  
2022-2024

### INTRODUCTION - CONTEXT

- Need to better structure HVAC information if BIM objects
- Some national applications of BIM, not harmonised yet
- CEN TC442 is launching a BIM standard project dedicated to the HVAC sector, to define a dictionary model and an exchange format for **HVAC** product catalogues
- Led by German team looking for an EN ISO standard from an update the VDI 3805 (see for ex. Blatt22 for Heat Pumps <https://www.bim4hvac.com/gfx/BDH/BIM-MetaDaten.xlsx>)

### HOW TO TACKLE THIS?

- CEN TC442 has made its call for experts but until now quite limited involvement of product manufacturers, **risk** is to have to have an uncomplete or inappropriate/inapplicable standard, **opportunity** is to keep the product definitions under control
- Information provided to Eurovent Commission and each Eurovent Product Group. Under discussion: settle a Eurovent horizontal Working Group/Task Force for the follow-up of the developments. Or each manufacturer to be registered in its own national standardisation body



10.99	Official start (=end of ballot)	2022-08-05
20.60	Circulation 1 <sup>st</sup> WD	2022-12-02
30.99	Enquiry draft ready	2023-03-31
45.99	FV draft ready	2024-05-17



## Find the right BIM products

Search engine for HVAC & R products based on criterion that really matter

**CERTIFIED DATA  
AVAILABLE IN BIM!**

**Publish your objects  
on [www.prodbim.com](http://www.prodbim.com)**

What are you looking for ?

heat pump, fan, air conditioner...

category

Select a category

brand

Select a brand

Search

**Enrich now your certified data  
with BIM files to make them  
available in BIM projects!**

- User-friendly interface for product data enrichment, association with documents, choice of connectors
- Dedicated support for the easiest data and files on-boarding
- Data automatically synchronised from Eurovent Certification website
- Connector available to EPREL database for energy efficiency labels
- Connector to BIM&Co and OnFly, most downloaded Revit plug-in in Europe!

**Discovery Offer  
FREE!**

1 range  
1 BIM file  
100 products

**Standard  
499€/month**

20 ranges  
20 BIM files  
2 000 products

**Advanced  
Upon request**

As many products  
as you need

FREE for models  
Eurovent certified!



For BIM&Co

For Prodbim website

TRUE FALSE

TRUE FALSE

**Actions**

**CONNECTORS**



**Publish to website**



**Connect now!**

[s.marinhas@prodbim.com](mailto:s.marinhas@prodbim.com)

[contact@prodbim.com](mailto:contact@prodbim.com)

+33 6 87 36 59 37

# ECC, BIM&CO and PRODBIM facilitate access to certified data

Eurovent's initiative PRODBIM partners with BIM&CO and Eurovent Certita Certification (ECC) to facilitate access to certified data in BIM software and exchanges. The partnership will accelerate creation of data and improve its reliability.

PRODBIM was created with the ambition of helping manufacturers to rationalise the distribution of their product data. The partnership between PRODBIM and BIM&CO will accelerate the creation of data and facilitate the digitalisation of manufacturers' processes, ensuring considerable time savings for all users. PRODBIM's association with ECC has the ambition to promote the use of certified product performances for more than 700 industrial members. In practice, three complementary solutions are deployed to meet this need, which are:

- ✓ Centralised management portal – PIM
- ✓ Connectors and partnerships to other platforms and tools
- ✓ Inter-classification correspondences and data dictionaries

In this context, PRODBIM, together with BIM&CO, has found a way to structure the certified data, to accelerate their availability and their use in the digital model. With the aim of facilitating the daily life of manufacturers, this partnership allows to distribute certified data in business software, exploit the certified status of products in a traditional and BIM process and mutualise the entry and maintenance of manufacturers data.

The two partners share many common objectives, all aligned with the desire to facilitate access to certified data in software and BIM exchanges. It is also a desire of promoting the need and harmonisation of data among manufacturers and valorisation of trusted product data. Eurovent and BIM&CO also seek to accelerate the creation of data by manufacturers, business and visibility of respective solutions and digitalisation of manufacturers' processes.

## Webinar

How to facilitate access to certified data in BIM softwares and exchanges?



Presented by :



Vincent  
HENAUT



Valentin  
MALEMANCHE



Philippe  
CARON

**Jeudi**  
**20**  
**Janvier**  
11h00

**Tuesday**  
**Feb 1st**  
10am 4pm

**BIMWORLD**  
Solutions  
Bas-Carbone  
5 & 6 AVRIL 2022

**mce**  
42<sup>nd</sup> MOSTRA CONVEGNO EXPOCOMFORT  
THE ESSENCE OF COMFORT  
18 GIUGNO - 1 LUGLIO 2022

**New date!**

**INTERCLIMA**  
Confort et efficacité énergétique

**PARIS EXPO  
PORTE DE  
VERSAILLES  
04 OCT 2022**

PRODBIM is a subsidiary from Eurovent Services Company. Our mission is to support Heating, ventilation, Air-Conditioning and Refrigeration industry through its digital transformation challenges. With our Partners from all around Europe, we:

- ✓ **Make easier product data management** for HVAC&R industry;
- ✓ **Create a trustworthy source of information** for the construction market.



Let's get in touch! [contact@prodbim.com](mailto:contact@prodbim.com)

[s.marinhas@prodbim.com](mailto:s.marinhas@prodbim.com) | +33 6 87 36 59 37





# European Product Registry for Energy Labelling (EPREL)

A European database, direct application from Regulation 2017/1369/EU



## Obligation to declare products

under applicable Energy labelling regulation

available on market after 1<sup>st</sup> Aug. 2017

*Latest news: Supplier verification*

*+ Public interface since 28 March 2022*

<https://eprel.ec.europa.eu>

**Eurovent services to manage EPREL serenely:** **FREE for certified products!**

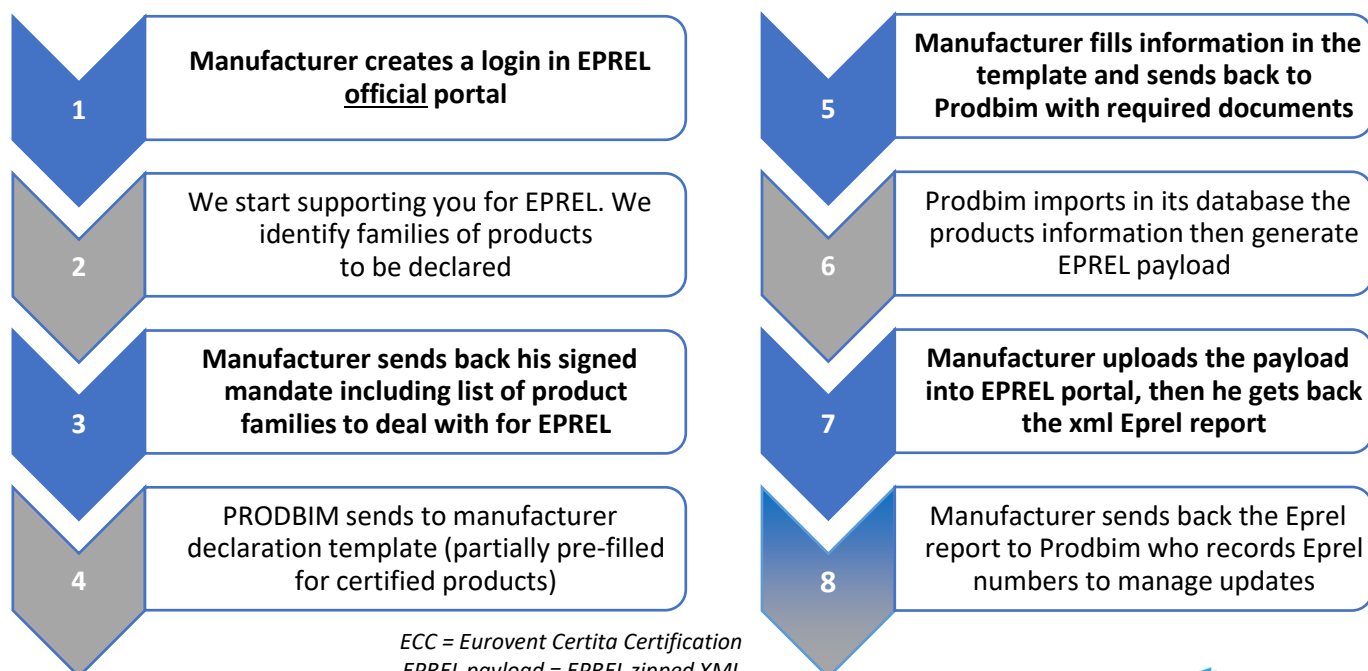


**Support for application of European regulation**

**Checklist information and documents to provide**



**Generation of EPREL file ready for upload**



ECC = Eurovent Certita Certification  
EPREL payload = EPREL zipped XML



Let's get in touch! [contact@prodbim.com](mailto:contact@prodbim.com)

[s.marinhas@prodbim.com](mailto:s.marinhas@prodbim.com)

+33 6 87 36 59 37





## 2 MANUFACTURERS

Your **Product Sheets files**



Your Various **Databases**



Your **ERP**



Your **e-catalogue**



1

### HARMONIZATION

Multi-countries contexts  
Catalogue & custom products



PRODUCT DATA SOLUTIONS

Powered by  EUROVENT

European Product  
Data Solution

3

## MARKET



**BIM software & format**  
(eg. Revit, IFC,...)



**Regulatory request**  
(eg. EPREL,...)



**Local Databases**  
(eg. ECC, Edibatec ...)



**Resellers & web sites**

PRODBIM is a subsidiary from Eurovent Services Company. Our mission is to support Heating, ventilation, Air-Conditioning and Refrigeration industry through its digital transformation challenges.

With our Partners from all around Europe, we:

1. **Make easier product data management** for HVAC&R industry;
2. **Create a trustworthy source of information** for the construction market.