



BIM in the MEP

Processes & Experiences

Peter Leipold | Kermi



... about myself

Head of Product Data Management & HVAC Applications

- with Kermi for 32 years
- Product management & technical marketing
- Project manager for PIM/DAM systems
- BIM coordinator for Kermi & Arbonia

Association activities:

- BDH: Working Group VDI 3805/ISO 16757
- VDI: 3805 Guidelines Committee Heating
- ARGE: Spokesperson BIM Steering Committee



What does KERMI stand for?

Kermi Heat system x-optimised



The Kermi heat concept:

- The x-change heat pumps generate heat as quiet as a whisper
- The x-buffer heat accumulators store the heat energy for a particularly long time
- The x-center control system specifically controls the heat supply
- The x-net panel heating/cooling and the therm-x2 panel radiators transfer feel-good warmth into the rooms
- The x-well living space ventilation with heat recovery conducts CO₂ and humidity to the outside in a controlled manner and supplies fresh air

Panel radiator

x-flair

Perfect for low-temperature systems: x2 technology plus fans

- Perfect for heat pumps and condensing boilers
- Fully automatic control
- Low-noise comfort mode
- Highest efficiency
- State funding
- Optics identical therm-x2
- Original x2 technology
- **Cooling** without condensate



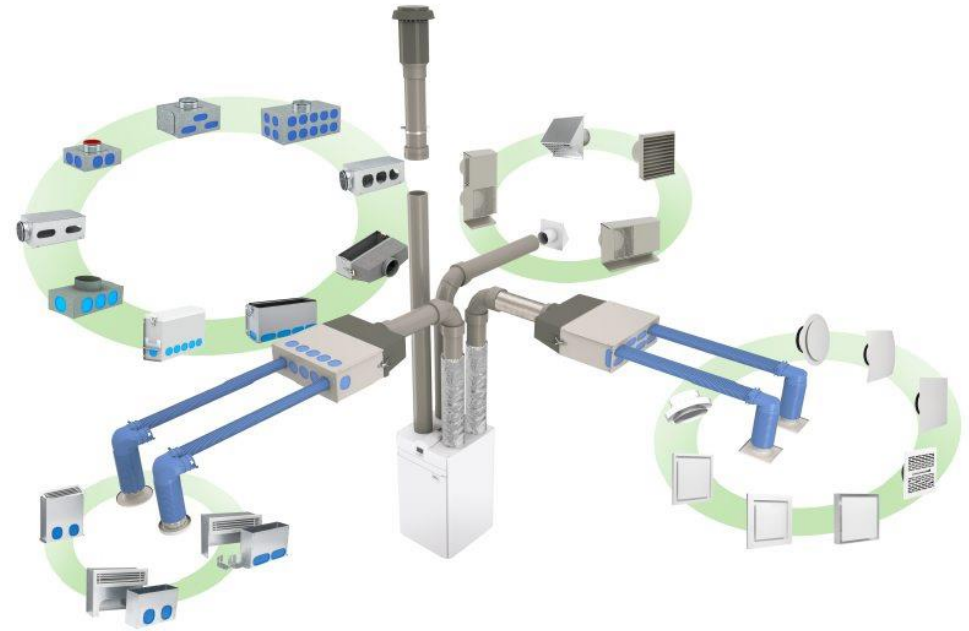
BIM in the MEP

The challenge

- Digital twin for systems e.g. living space ventilation, underfloor heating
- System calculation & dimensioning
- Variety of MEP programmes / CAD systems

Conclusion:

- **Looking at the digital twin of a component is not enough!**



BIM in the MEP

The challenge - platforms & individual data formats

- Variety of international BIM platforms
- Individual data models in the planning software
- Numerous international CAD systems

Conclusion:

- **Infinitely scalable effort for data creation and maintenance of the digital twin in the target systems**



.....

BIM in the MEP

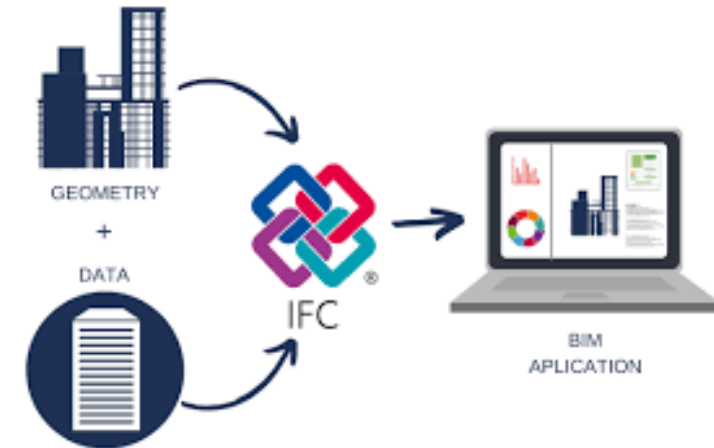
The solution - standardised BIM data formats

- IFC for the exchange of projects
- VDI 3805/ISO 16757 standardised product data exchange in TGA incl. parameterised geometry data & functions

Conclusion:

- **High data quality + up-to-dateness requires standards**

BIM-Projekte



BIM-Produktdaten



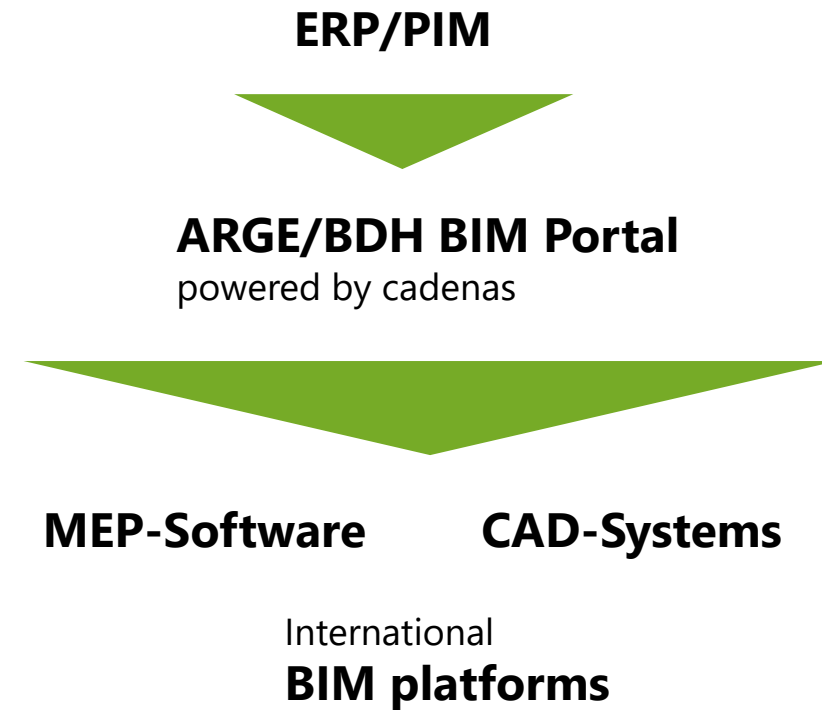
BIM in the MEP

The solution - standardised processes

- Standardised processes
- Industry ERP/PIM systems to the ARGE/BDH BIM portal
- ARGE/BDH BIM portal for MEP software
- ARGE/BDH BIM portal on BIM international BIM platforms
- Cadenas's MultiCAD data model to the CAD system user

Conclusion:

- Fast availability of product data at the point of sale requires standard processes



BIM in the MEP

Distribution - vertical BIM marketplaces

- Kermi BIM-Portal

www.kermi.de/bim

- Cadenas BIM Catalogs

www.bimcatalogs.net

- ARGE/BDH BIM-Portal

<http://bim.building-masterdata.com>

www.bim4hvac.com

Im Kermi BIM-Portal stellen wir Ihnen BIM-fähige Daten in über 30 CAD-Formaten (z.B. Autodesk Revit, Autocad, Allplan, ArchiCAD, Trimble etc.) inklusive der relevanten Produktattribute zum Download bereit.

Y1101280001K Rechts-Variante (Umschaltbar) 280 mittel
Kermi > Raumklima > x-well Wohnraumlüftung > Zentrales System > Lüftungsgeräte

SA71013ID010	Bezugsluftvolumenstrom qref	200	m ³ /h	
ANSCHLUSSVAR	Anschluss Lüftungsgerät	Rechts-Variante (Umschaltbar)		
SA810ID03	Bestell-Nummer	Y1101280001K		
SA700ID04	Produktname	x-well® Wohnraumlüftungsgerät S280		
SA71009ID04	Länge	600	mm	
SA71009ID05	Breite	630	mm	
SA71009ID06	Höhe	1111	mm	
SA71013ID06	Temperaturänderungsgrad der Wärmerückgewinnung	91.0	%	
SA71013ID09	Schalleistungspegel LWA	43	dB	
SA71001ID05	Art der Zusatzheizung/-	Vorheizregister nachrüstbar		

3D 2D

©2023 powered by CADENAS

Generiere CAD MODELL

Generiere PDF-Datenblatt

Y1101280001K Rechts-Variante (Umschaltbar) 280 mittel
Kermi > Raumklima > x-well Wohnraumlüftung > Zentrales System > Lüftungsgeräte

Bezugsluftvolumenstrom qref	200	m ³ /h	
Anschluss Lüftungsgerät	Rechts-Variante (Umschaltbar)		
Bestell-Nummer	Y1101280001K		
Produktname	x-well® Wohnraumlüftungsgerät S280		
Länge	600	mm	
Breite	630	mm	
Höhe	1111	mm	
Temperaturänderungsgrad der Wärmerückgewinnung	91.0	%	
Schalleistungspegel LWA	43	dB	
Art der Zusatzheizung/-	Vorheizregister nachrüstbar		

©2023 powered by CADENAS

Y1101280001K Rechts-Variante (Umschaltbar) 280 mittel
Kermi > Raumklima > x-well Wohnraumlüftung > Zentrales System > Lüftungsgeräte

Bezugsluftvolumenstrom qref	200	m ³ /h	
Anschluss Lüftungsgerät	Rechts-Variante (Umschaltbar)		
Bestell-Nummer	Y1101280001K		
Produktname	x-well® Wohnraumlüftungsgerät S280		
Länge	600	mm	
Breite	630	mm	
Höhe	1111	mm	
Temperaturänderungsgrad der Wärmerückgewinnung	91.0	%	
Schalleistungspegel LWA	43	dB	
Art der Zusatzheizung/-	Vorheizregister nachrüstbar		

Zum Herunterladen von CAD-Daten müssen Sie s...

BIM in the MEP

Outlooks

- Expand cooperation
- Further develop data formats
- Driving processes & services forward
- Expand and market marketplaces





Thank you very much!

Peter Leipold

KERMI