

Building Capabilities in Complex Environments

CitA BIM Gathering 2017, Croke Park, November 23rd & 24th, 2017



MagiCAD

MAGICAD FOR REVIT MEP

LOCALISED CALCULATIONS & CONTENT FOR
THE UK & IRISH MEP MARKETS

By Gavin Doherty | 23/11/2017

progman

34 years of experience developing integrated
MEP software solutions for Autodesk platforms

COMPANY HISTORY TIMELINE



Progman is founded
1st building services
calculation software
released

1983

Company places
focus on BIM
(Building
Information
Modelling)

1990

1996

Autodesk developer network (ADN)
partnership begins

1998

MagiCAD for
AutoCAD released

MagiCAD for Revit
MEP released

2009

2014

Progman becomes
part of the Glodon
Software Group
with over 5500
employees

2015

Product model database
contains more than 200
manufacturers. Over
1,000,000 MEP product
variants modelled

2015

MagiCAD Software
used in over 70
countries globally

MagiCloud platform launched.
UK subsidiary opened
Autodesk Solution Associate

2016

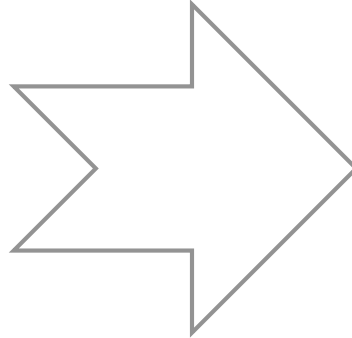


Powerful MEP design software for Revit

PLATFORM & MODULE OPTIONS



- **MagiCAD** Ventilation
- **MagiCAD** Piping
- **MagiCAD** Electrical
- **MagiCAD** Sprinkler Designer
- **MagiCAD** Schematics
- **MagiCAD** Circuit Designer
- **MagiCAD** Comfort & Energy



- **MagiCAD** Ventilation
- **MagiCAD** Piping
- **MagiCAD** Electrical
- **MagiCAD** Sprinkler Designer
- **MagiCAD** Schematics
- **MagiCAD** Supports & Hangers

LOCALISING REVIT FOR THE UK / IE MARKETS

- MagiCAD is actively used in over 70 countries across the globe
- Localised design templates and country specific standards created for core market areas

DW144 standards
for
Ductwork

BS EN Standards
for
Pipework

Over 1200
2D Engineering
symbols to BS 1553

Uniclass 2015
Codes in Products

Ductwork / Pipework
pressure drop calculations
aligned to CIBSE Guide C

Domestic Water diversity calculations
aligned to BS 8558 / BS EN 806 & CIPHE

Drainage diversity calculations
aligned to BS EN 12056

Sprinkler calculations
aligned to NFPA 13,
BS 9251:2015, BS EN 12845,
CEA 4001 and UNI 10779

GLOBAL PRESENCE

- International sales and support network across 70 countries worldwide
- Numerous sales channels:
 - Direct sales (UK / Ireland)
 - Authorised partners
 - Resellers
- Working closely with Autodesk:
 - Autodesk Developer Network (AND) Partner since 1996
 - Autodesk AEC Solution Associate Partner since 2016
- MagiCAD is continually developed to ensure full compatibility with every new release of Revit MEP



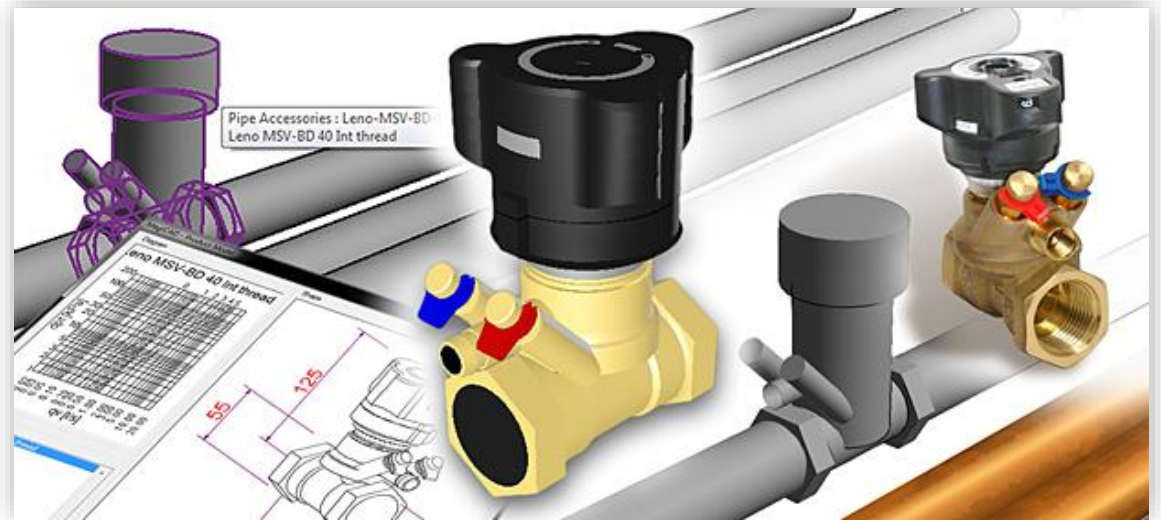
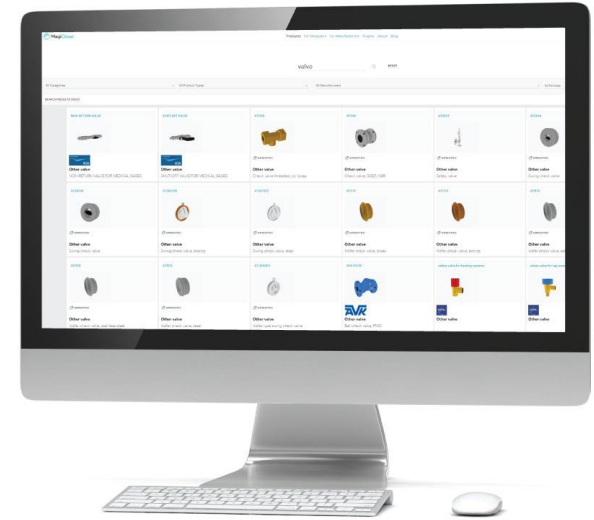


Europe's largest BIM library containing over
1,000,000 manufacturer-verified MEP product variants

EXTENSIVE MEP DATABASE

- Europe's largest MEP product model database
- Cloud based platform + continually up-to-date
- More than 250 leading globally renowned manufacturers
- 1,000,000+ data-rich MEP product variants
- 1,400+ generic product families
- All product models are:

fully parametric
contain technical data
consistently modelled
manufacturer-verified before release
RFAs are between LOD 300 / 350

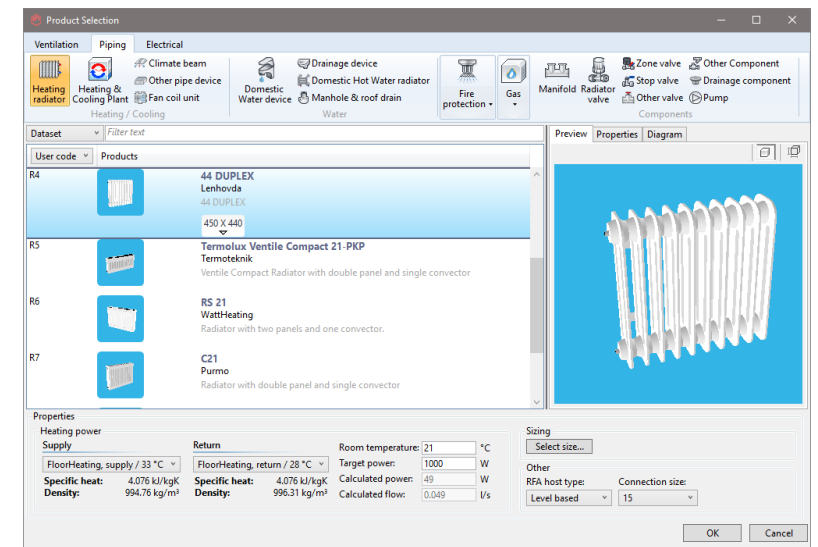
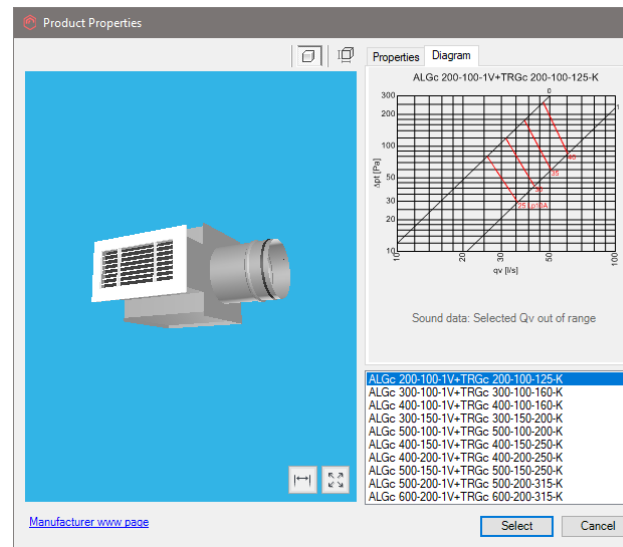
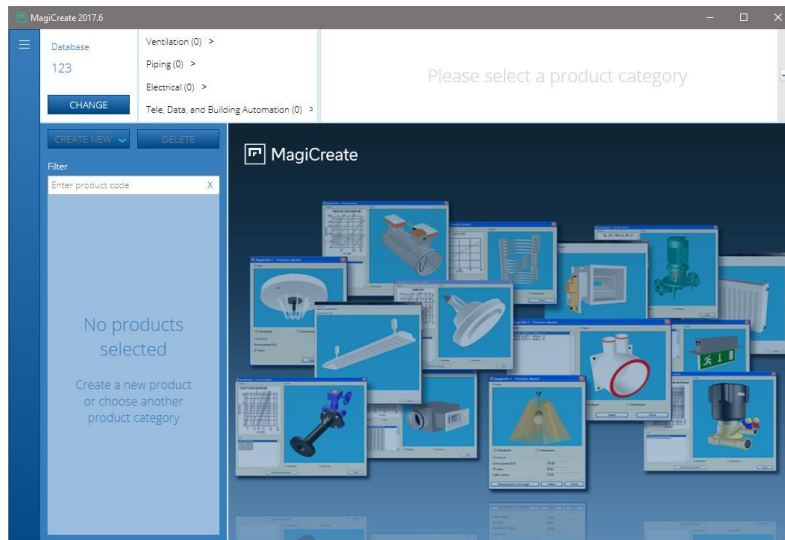




Powerful tool for creating bespoke
Revit families with embedded technical data

CONTENT GENERATION

- Easy-to-use MEP content generation wizard
- Import content into the software and manipulate
- Quickly create families of components with embedded technical data
- Import completed content into Revit -> RFA created



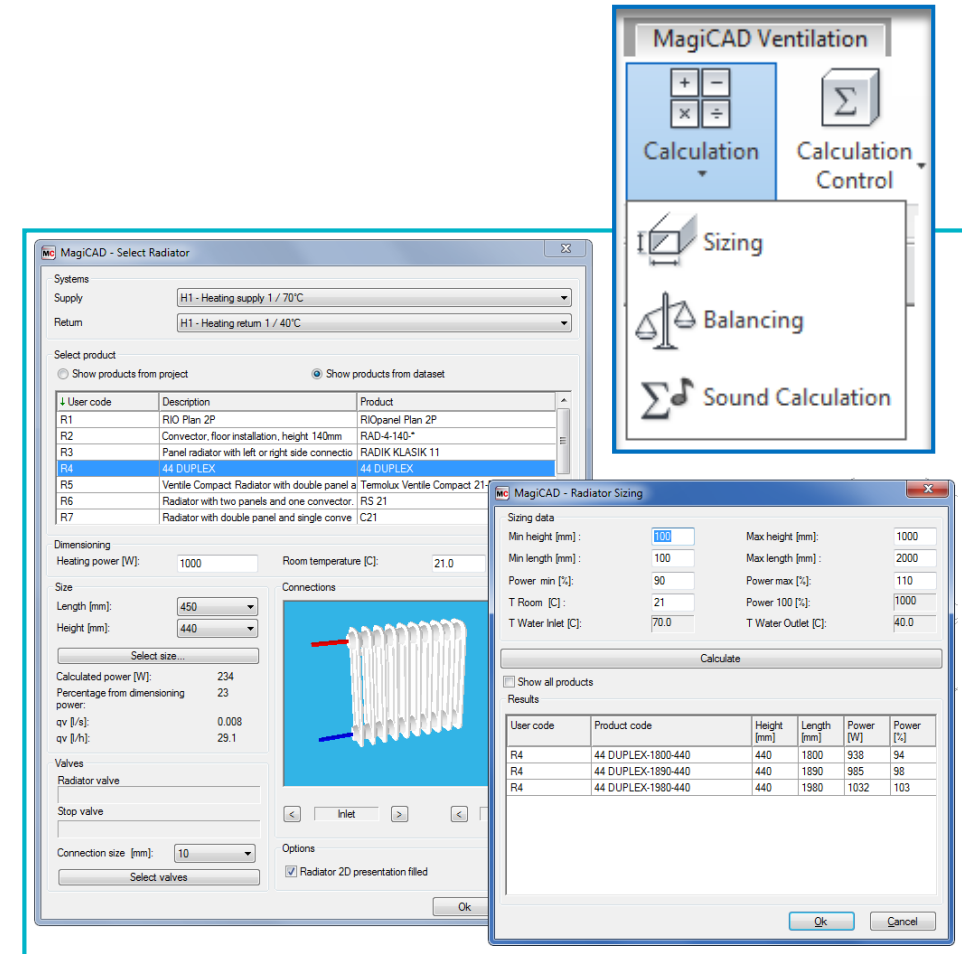
UK / IE ALIGNED CALCULATIONS

- MagiCAD's content rich models contain both accurate dimensions and comprehensive technical data
- Technical data utilised by MagiCAD to perform calculations
- Duct work and pipe work calculations aligned to CIBSE Guide C within the Revit MEP environment
- Overrides Revit MEP's own ASHRAE aligned calculation engine
- Calculations for Ventilation, Heating and cooling systems, water and sprinkler systems as you design
- MagiCAD performs:

ductwork and pipework sizing

ductwork and pipework balancing

sound level calculations



Plugins

AHU Plugins connect Revit
to manufacturers selection software

CUSTOMISED AHU PLUGIN TECHNOLOGY

TROX[®] TECHNIK
The art of handling air

FläktWoods

Lindab[®]

Systemair

Swegon

TA HYDRONICS

- Plug-ins make MagiCAD even more versatile
- Special programs connecting manufacturers' selection and calculation software to MagiCAD
- Selection is fast and streamlined
- Ability to customise specific setups such as AHU's
- All dimensions and technical data included in the product model
- AHU's imported into Revit MEP and RFA created
- Available at MagiCAD's download portal
- All plug-ins are free to all MagiCAD users

SYSTEM-AIR-CAD AHU

The screenshot displays the SystemairCAD software interface, which is used for designing Air Handling Units (AHUs). The main window shows a 3D model of the AHU unit with dimensions: 600 (width), 150 (depth), 1120 (height), 1220 (height), 595 (height), 100 (height), 150 (width), 600 (width), 750 (width), 300 (width), 750 (width), 150 (width), 1870 (width), 2090 (width), and 220 (height).

The interface includes several panels and windows:

- Systemair A/S - Air handling unit design - SystemairCAD C2014-05.05.D5**: The main application window with a menu bar (File, Unit, Function, Calculate, Drawing, Casing, Options, Help) and a toolbar. The left panel contains input fields for heating and cooling parameters, fan/filter/motor specifications, and warnings.
- Select unit type**: A dialog box for selecting the unit type. It includes fields for air flow (1.00 m³/s), pressure drop (300 Pa), and unit size (15). It also shows a list of product options (VDI 6022, VDI 6022).
- TIME ec**, **TOPVEX SR SX SC TR TX FR**, and **DVCompact CR CX**: These are logos for different product lines or configurations.
- 1: Danvent DV15**: A window showing a list of product options, including a "Cancel" button.

EUROPEAN PROJECTS



GLOBAL PROJECTS



ESTABLISHED CUSTOMER BASE

BDP.

RAMBOLL

**Chapman
BDSP**

desco



SWECO



Derry Ltd



Briggs & Forrester
GROUP LIMITED

M+W GROUP

AECOM

WSP

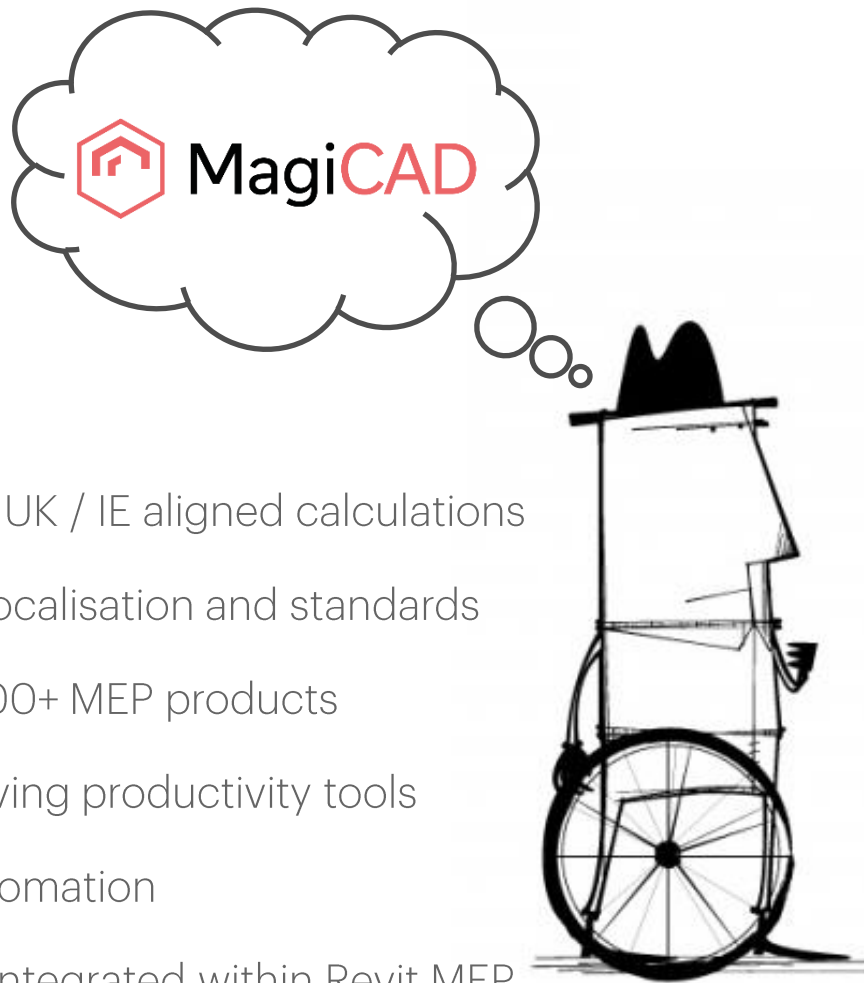
PICK EVERARD

**Johnson
Controls**

CAPITA

**QUACETZ
elec**

SAVING TIME AND COSTS



- Multiple UK / IE aligned calculations
- UK / IE localisation and standards
- 1,000,000+ MEP products
- Time saving productivity tools
- Task automation
- All fully integrated within Revit MEP

**CAN'T STOP.
Too BUSY!!**



ONLINE INFORMATION CHANNELS



Facebook



YouTube



Twitter



LinkedIn



MagiCAD

www.magicad.co.uk



MagiCloud

www.magiccloud.com

CitA
BIM GATHERING



Thank you
